Torus Glued Comparison of Level 4 Eigenfunctions and Level 3 Eigenfunctions By Averaging (First 150)

SPUR 2016

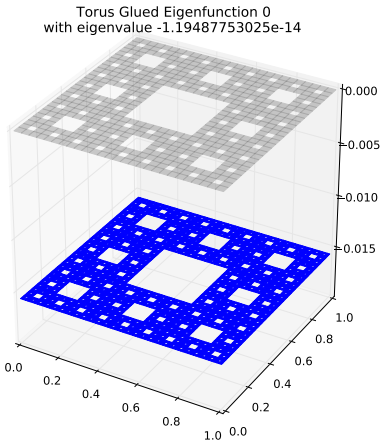
May 23, 2018

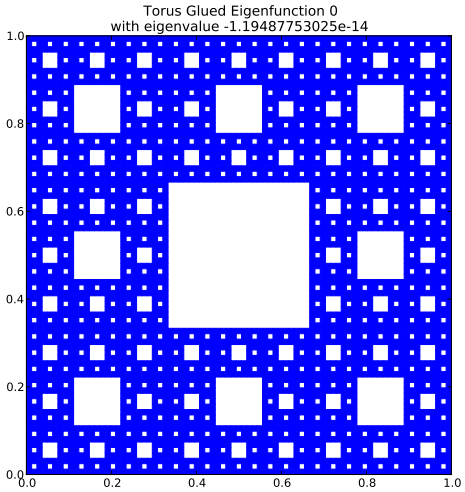
Key to Dot Value

Dot values are in general between 0 and 1; those close to 0 are better matches, while those close to 1 are not good matches. Dot value 2 indicates the eigenvalue averages to the zero function. Dot value 3 indicates the projection onto the closest eigenspace is zero.

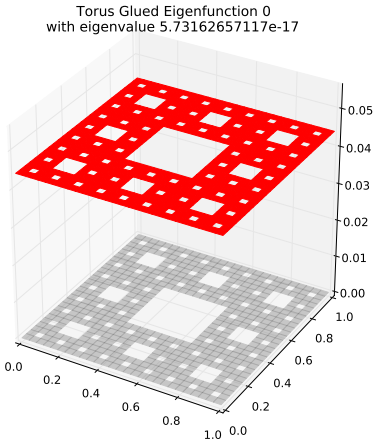
1 $M = 4$ Eigenfunction 0

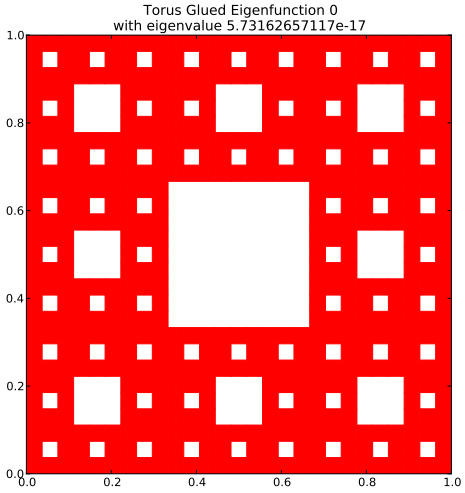
$M = 4$ Eigenfunction 0 has eigenvalue -1.19487753025e-14





Compare to $m = 3$ eigenspace with eigenvalue 5.73162657117e-17

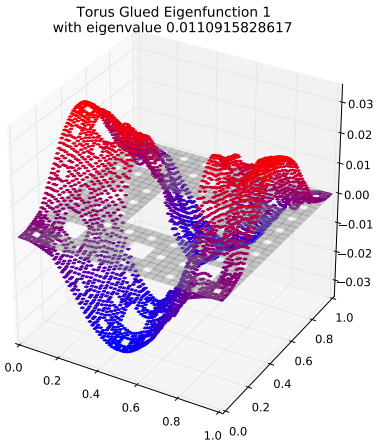


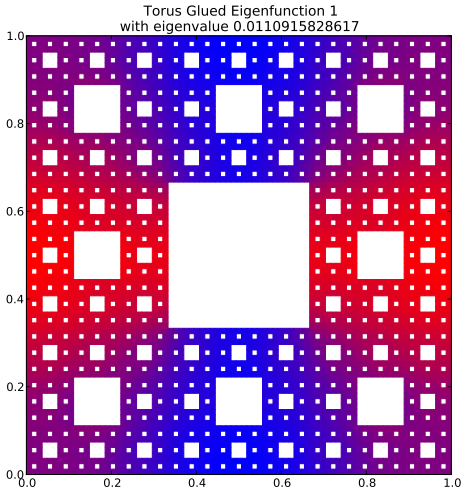


Eigenvalue Ratio: $\lambda_4/\lambda_3 = -208.470931491$
Dot Value: 1.1102230246251565e-16

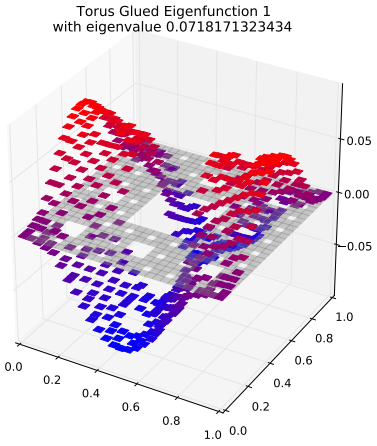
2 $M = 4$ Eigenfunction 1

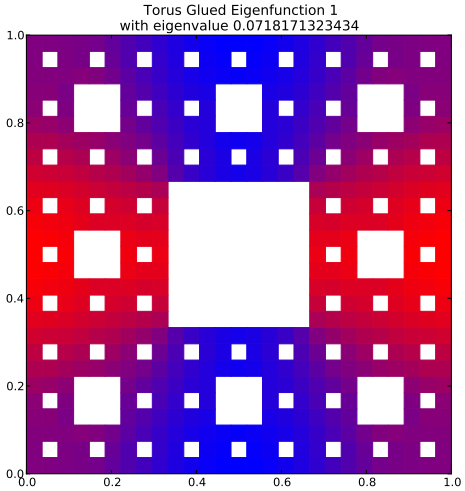
$M = 4$ Eigenfunction 1 has eigenvalue 0.0110915828617





Compare to $m = 3$ eigenspace with eigenvalue 0.0718171323434

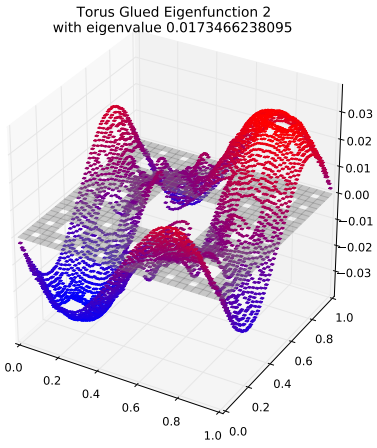


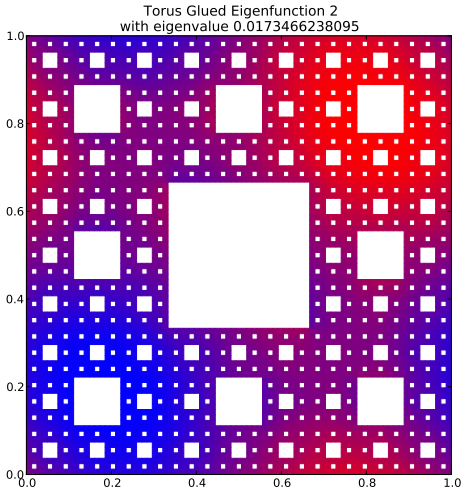


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.154442018217$
Dot Value: 3.222830612537031e-05

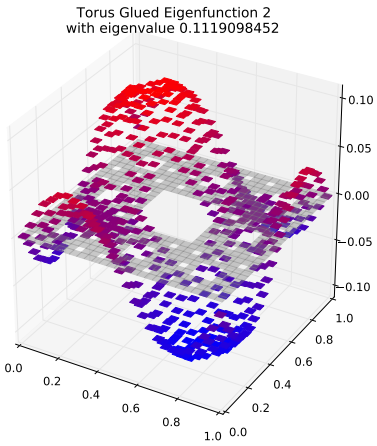
3 $M = 4$ Eigenfunction 2

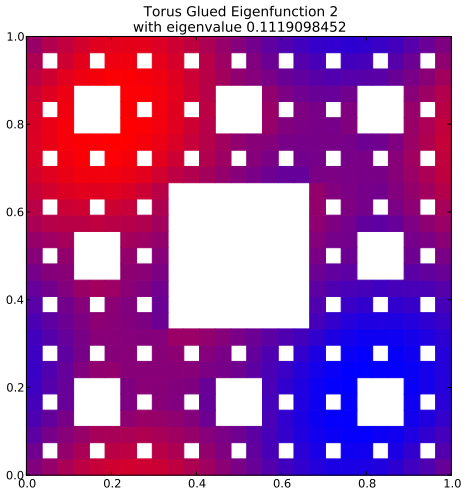
$M = 4$ Eigenfunction 2 has eigenvalue 0.0173466238095





Compare to $m = 3$ eigenspace with eigenvalue 0.1119098452
(Note: Eigenspace Dimension > 1)

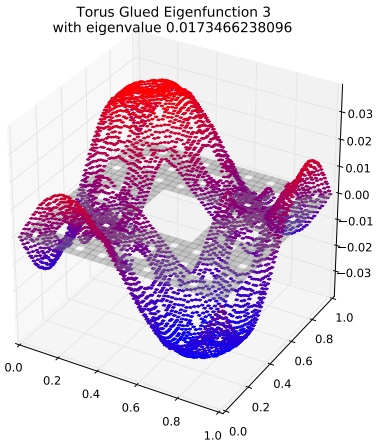


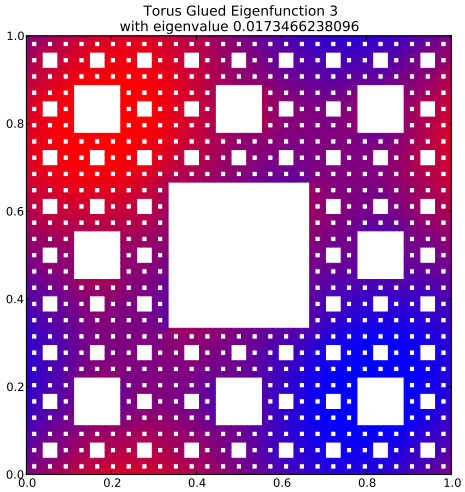


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.155005341832$
Dot Value: 0.00018518768128994445

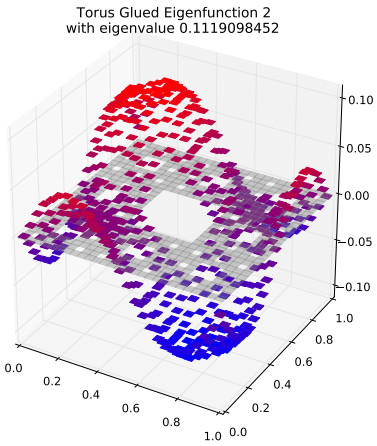
4 $M = 4$ Eigenfunction 3

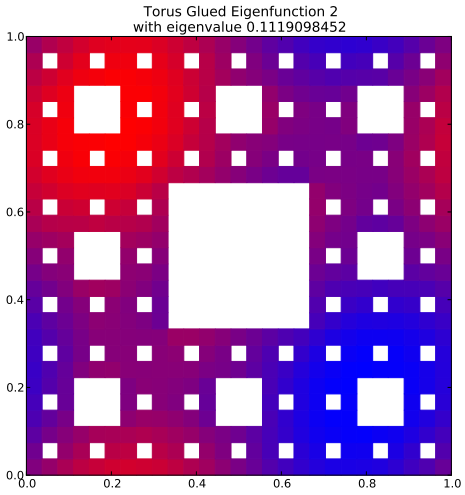
$M = 4$ Eigenfunction 3 has eigenvalue 0.0173466238096





Compare to $m = 3$ eigenspace with eigenvalue 0.1119098452
(Note: Eigenspace Dimension > 1)

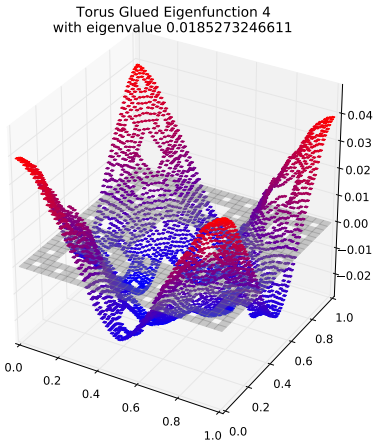


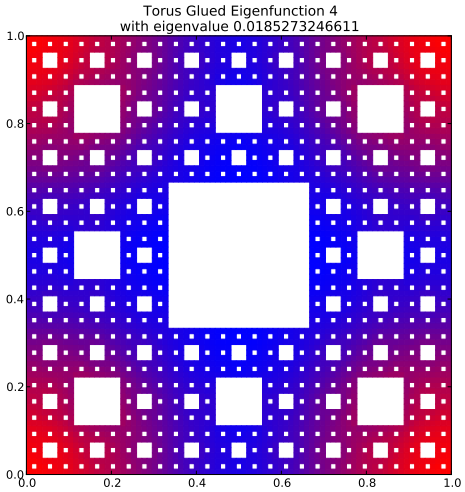


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.155005341832$
Dot Value: 0.0001851876812901665

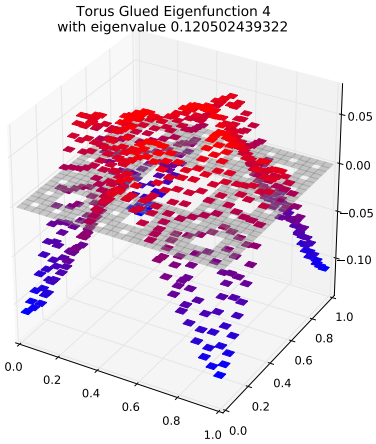
5 $M = 4$ Eigenfunction 4

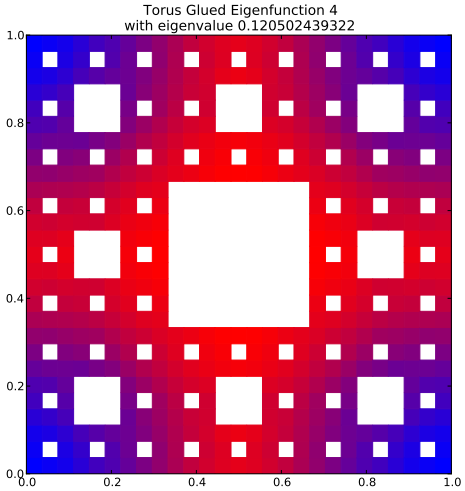
$M = 4$ Eigenfunction 4 has eigenvalue 0.0185273246611





Compare to $m = 3$ eigenspace with eigenvalue 0.120502439322

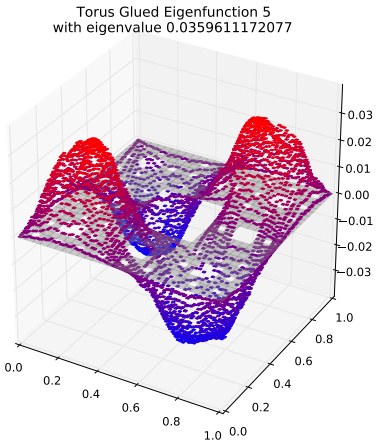


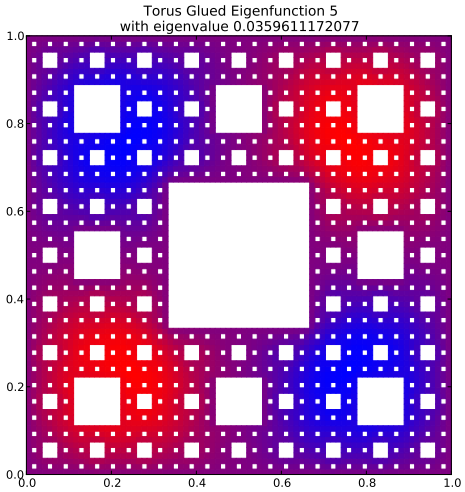


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.153750619202$
Dot Value: 8.893295618672692e-05

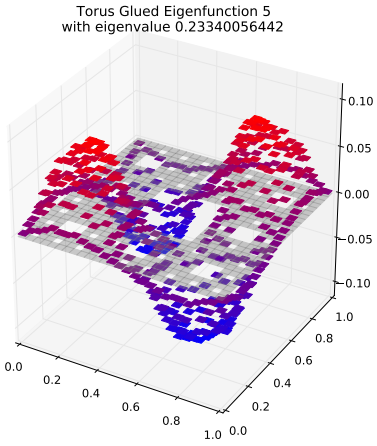
6 $M = 4$ Eigenfunction 5

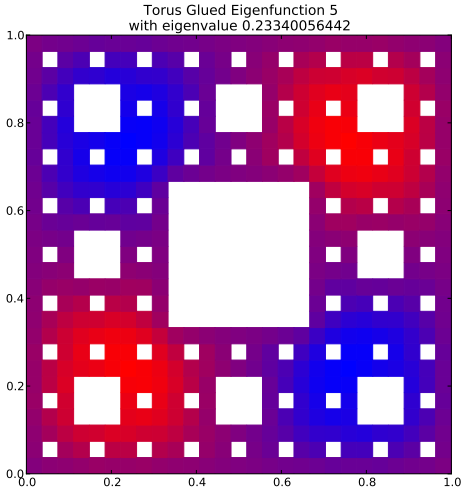
$M = 4$ Eigenfunction 5 has eigenvalue 0.0359611172077





Compare to $m = 3$ eigenspace with eigenvalue 0.23340056442

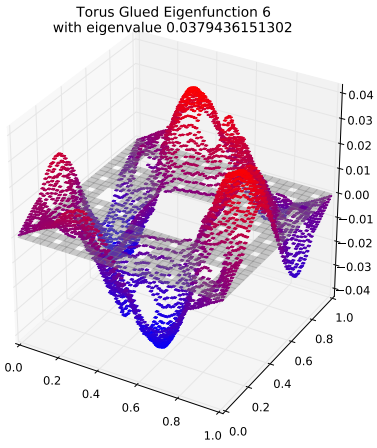


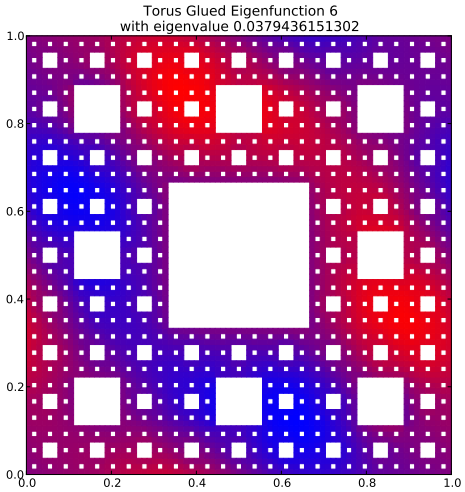


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.154074679713$
Dot Value: 0.00017167451076360862

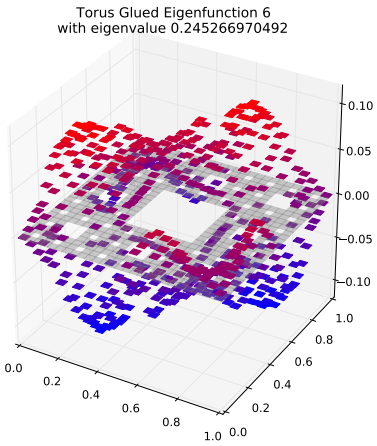
7 $M = 4$ Eigenfunction 6

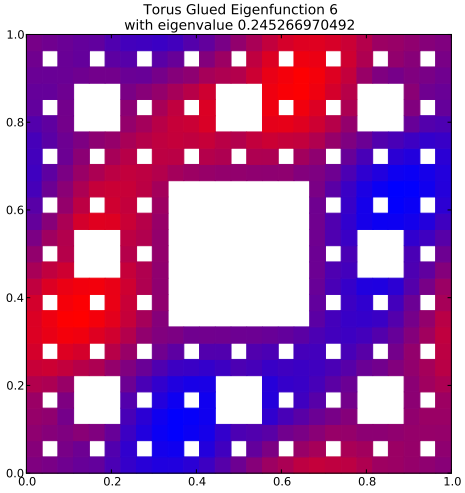
$M = 4$ Eigenfunction 6 has eigenvalue 0.0379436151302





Compare to $m = 3$ eigenspace with eigenvalue 0.245266970492
(Note: Eigenspace Dimension > 1)

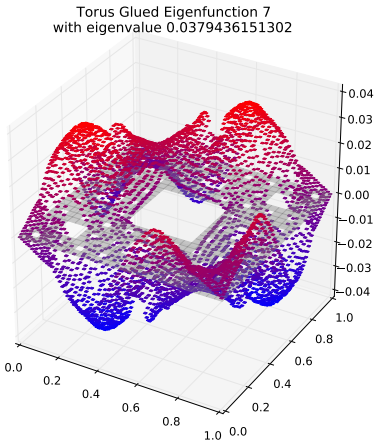


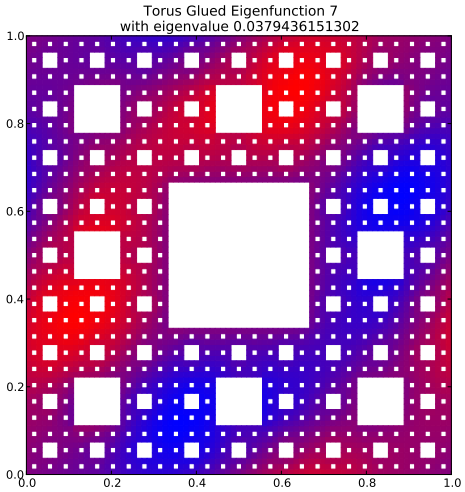


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.154703322074$
Dot Value: 0.0002862232125017128

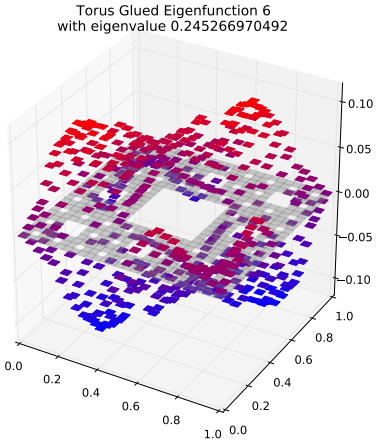
8 $M = 4$ Eigenfunction 7

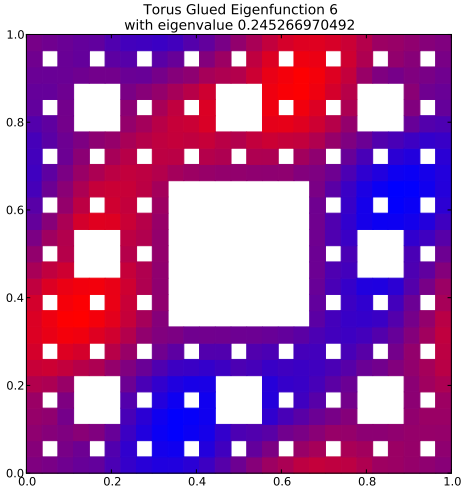
$M = 4$ Eigenfunction 7 has eigenvalue 0.0379436151302





Compare to $m = 3$ eigenspace with eigenvalue 0.245266970492
(Note: Eigenspace Dimension > 1)

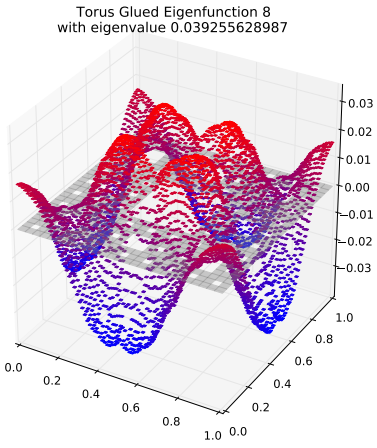


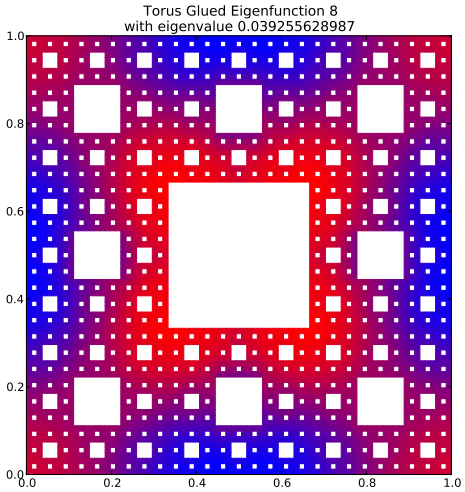


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.154703322074$
Dot Value: 0.00028622321250248994

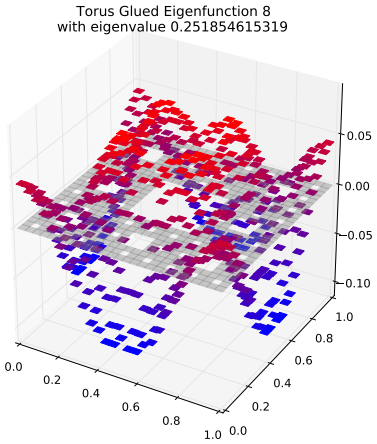
9 $M = 4$ Eigenfunction 8

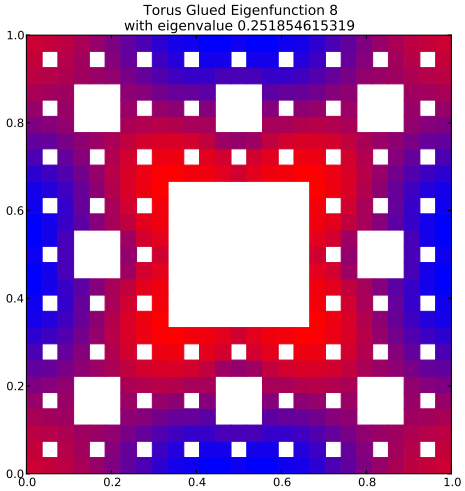
$M = 4$ Eigenfunction 8 has eigenvalue 0.039255628987





Compare to $m = 3$ eigenspace with eigenvalue 0.251854615319

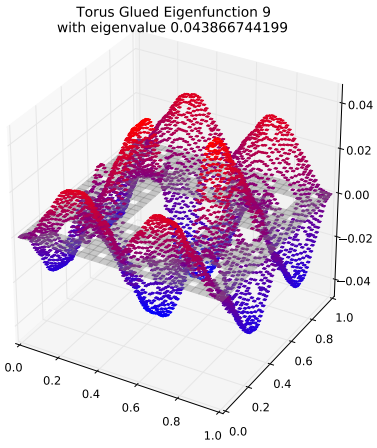


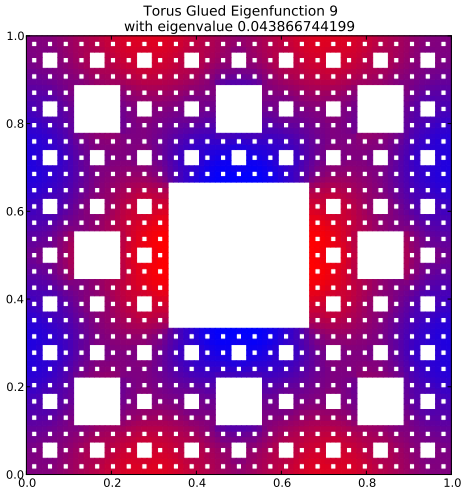


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.155866228369$
Dot Value: 0.000200780920758592

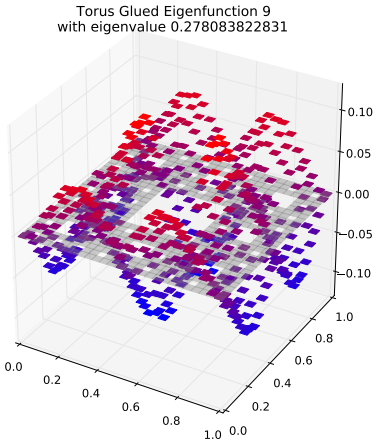
10 $M = 4$ Eigenfunction 9

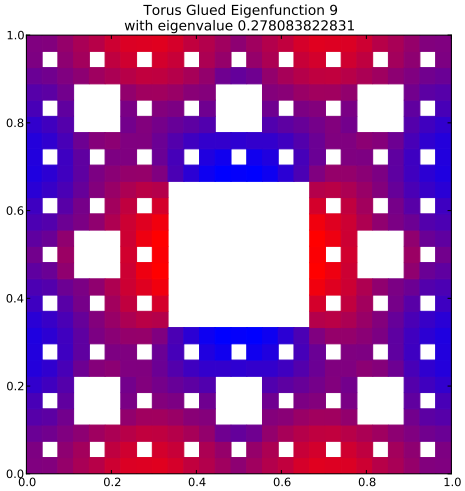
$M = 4$ Eigenfunction 9 has eigenvalue 0.043866744199





Compare to $m = 3$ eigenspace with eigenvalue 0.278083822831

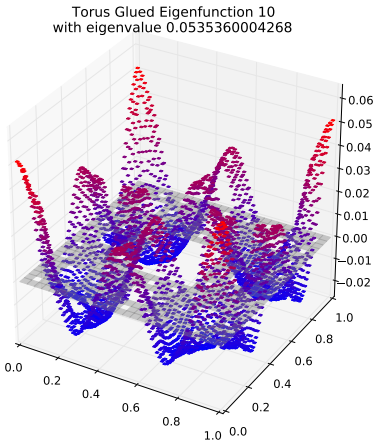


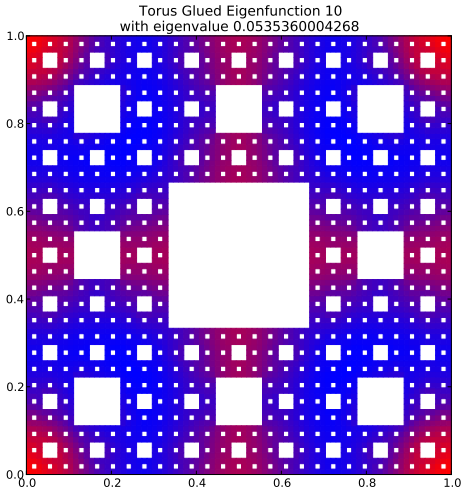


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.157746480009$
Dot Value: 0.00019881984987102364

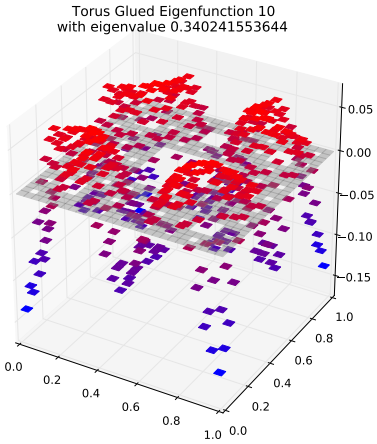
11 $M = 4$ Eigenfunction 10

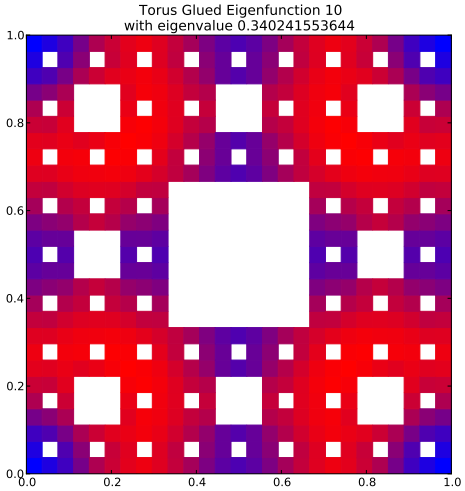
$M = 4$ Eigenfunction 10 has eigenvalue 0.0535360004268





Compare to $m = 3$ eigenspace with eigenvalue 0.340241553644

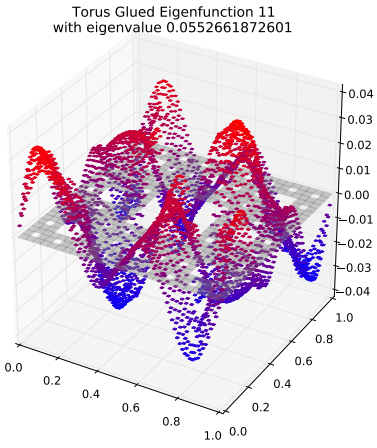


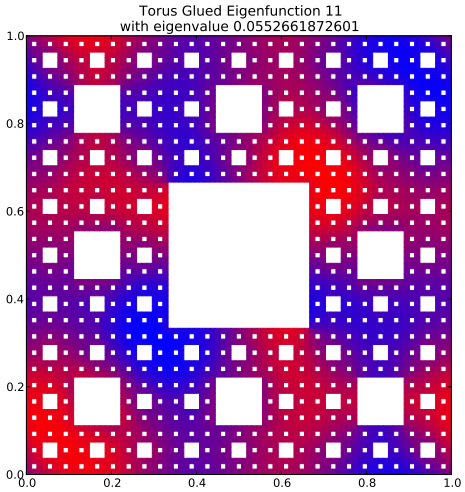


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.157347037284$
Dot Value: 0.0005571263839565521

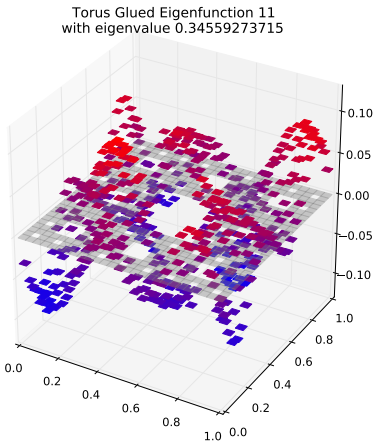
12 $M = 4$ Eigenfunction 11

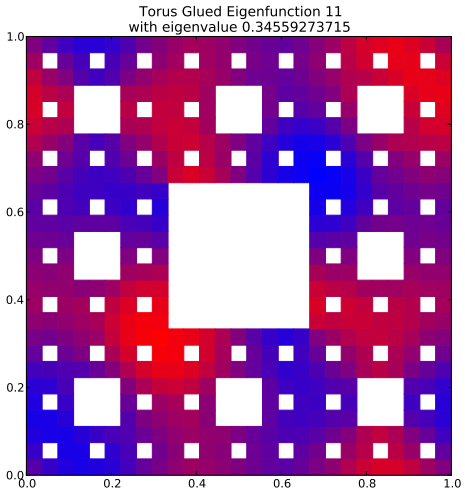
$M = 4$ Eigenfunction 11 has eigenvalue 0.0552661872601





Compare to $m = 3$ eigenspace with eigenvalue 0.34559273715
(Note: Eigenspace Dimension > 1)

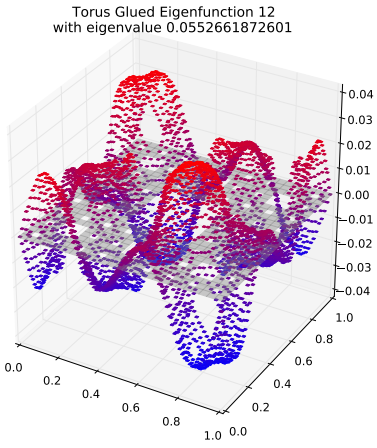


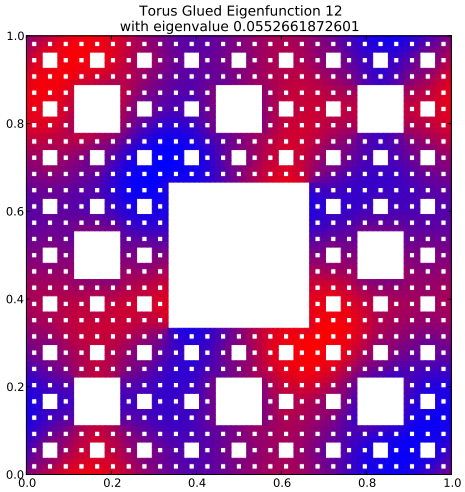


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.159917096973$
Dot Value: 0.0022951517196995175

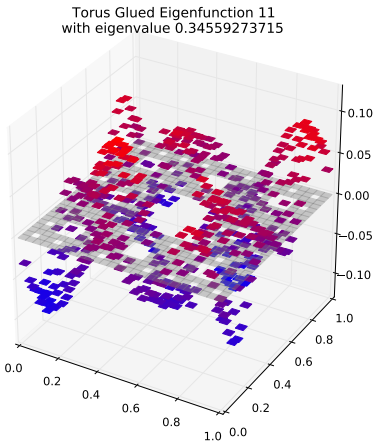
13 $M = 4$ Eigenfunction 12

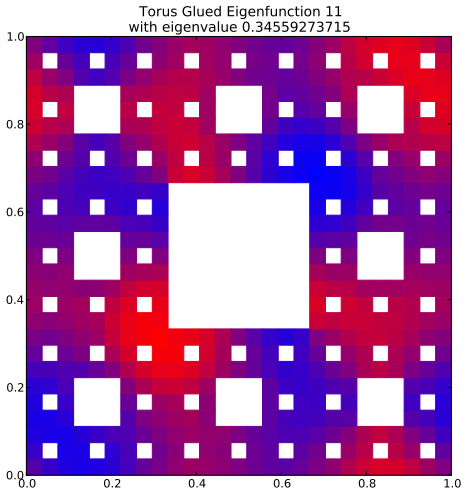
$M = 4$ Eigenfunction 12 has eigenvalue 0.0552661872601





Compare to $m = 3$ eigenspace with eigenvalue 0.34559273715
(Note: Eigenspace Dimension > 1)

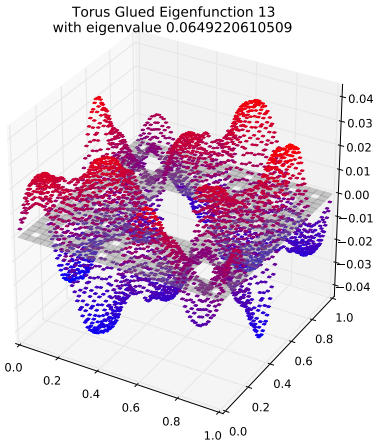


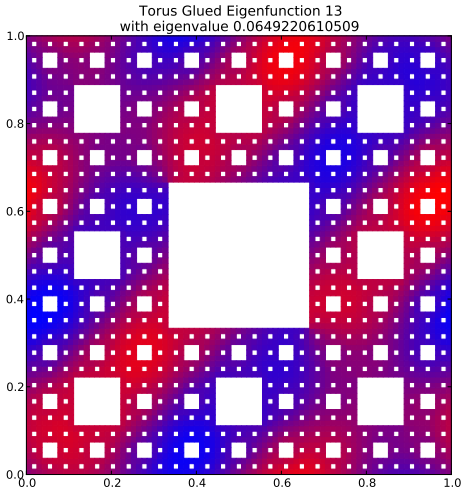


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.159917096973$
Dot Value: 0.0022951517196986293

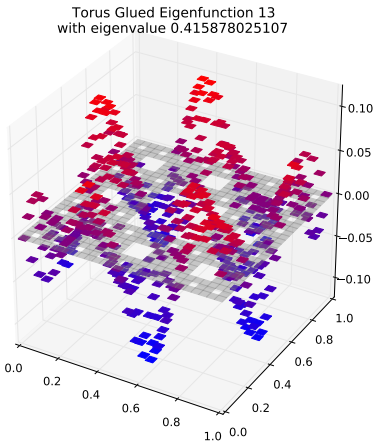
14 $M = 4$ Eigenfunction 13

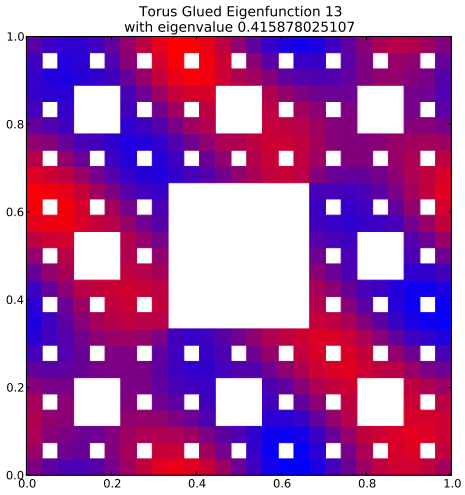
$M = 4$ Eigenfunction 13 has eigenvalue 0.0649220610509





Compare to $m = 3$ eigenspace with eigenvalue 0.415878025107
(Note: Eigenspace Dimension > 1)

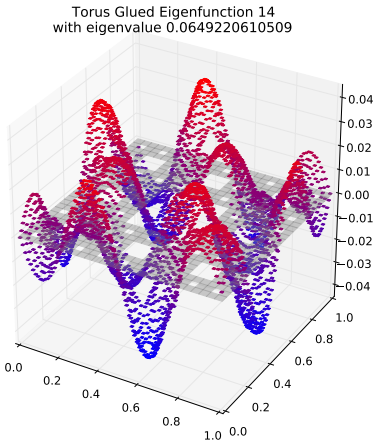


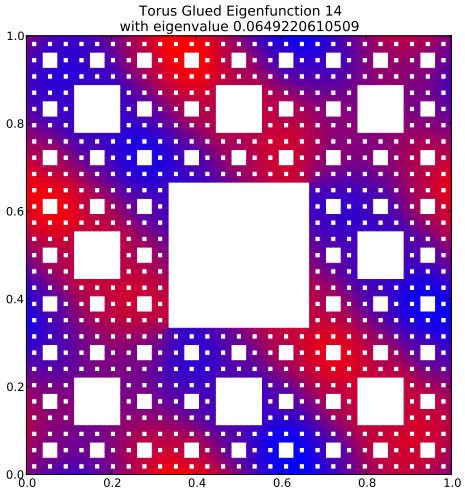


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.156108419131$
Dot Value: 0.002387616958102967

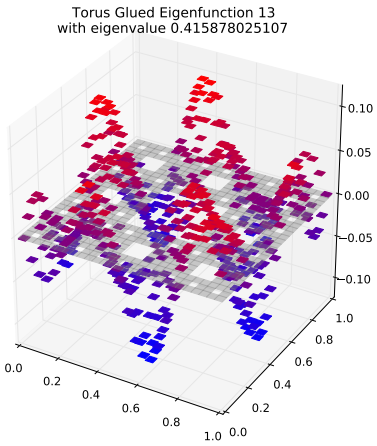
15 $M = 4$ Eigenfunction 14

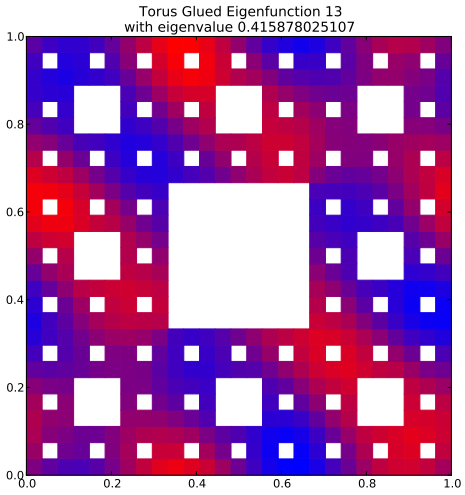
$M = 4$ Eigenfunction 14 has eigenvalue 0.0649220610509





Compare to $m = 3$ eigenspace with eigenvalue 0.415878025107
(Note: Eigenspace Dimension > 1)

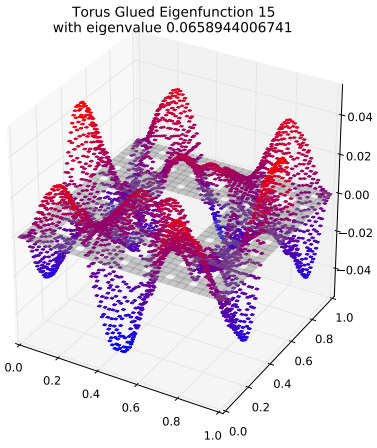


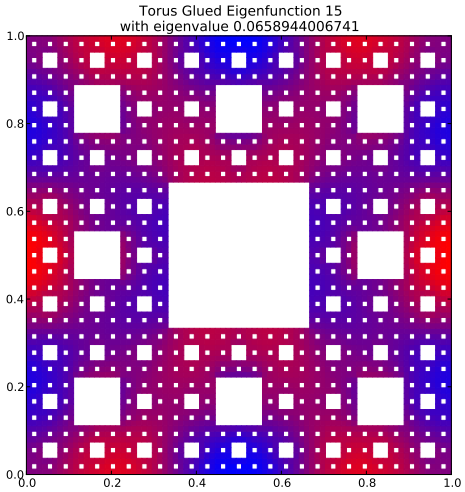


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.156108419131$
Dot Value: 0.0023876169581036333

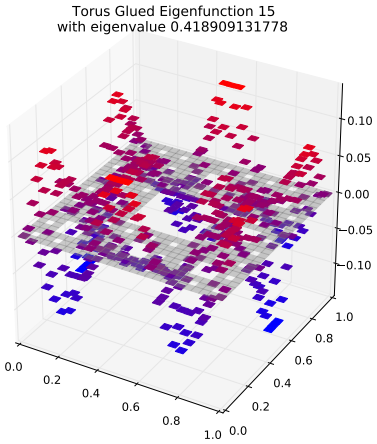
16 $M = 4$ Eigenfunction 15

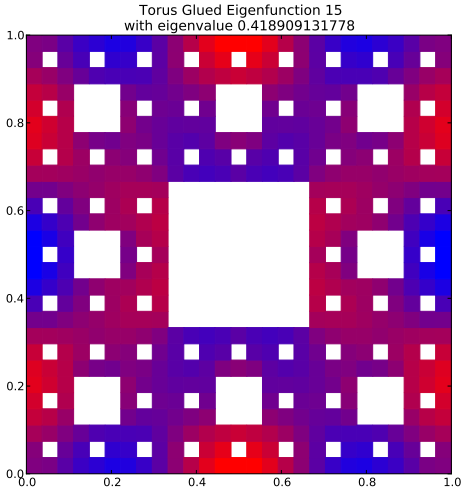
$M = 4$ Eigenfunction 15 has eigenvalue 0.0658944006741





Compare to $m = 3$ eigenspace with eigenvalue 0.418909131778

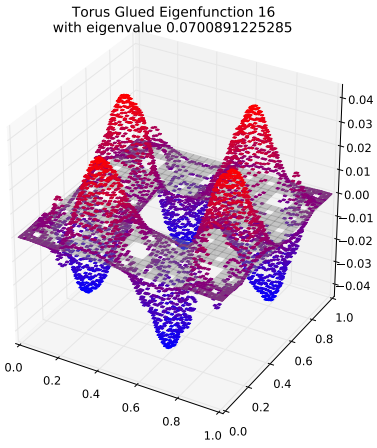


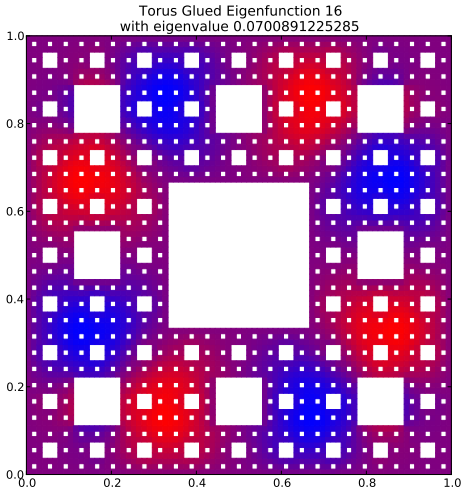


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.157299986263$
Dot Value: 0.0003833433743922754

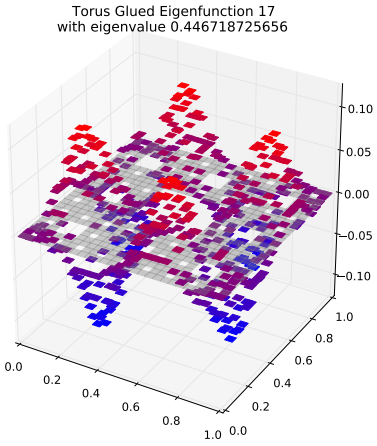
17 $M = 4$ Eigenfunction 16

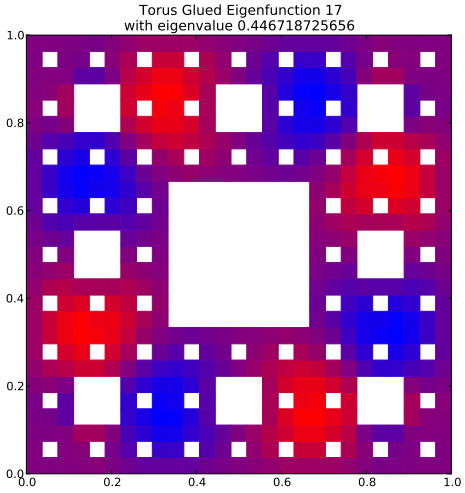
$M = 4$ Eigenfunction 16 has eigenvalue 0.0700891225285





Compare to $m = 3$ eigenspace with eigenvalue 0.446718725656

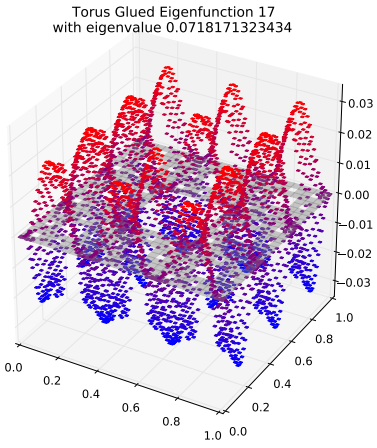


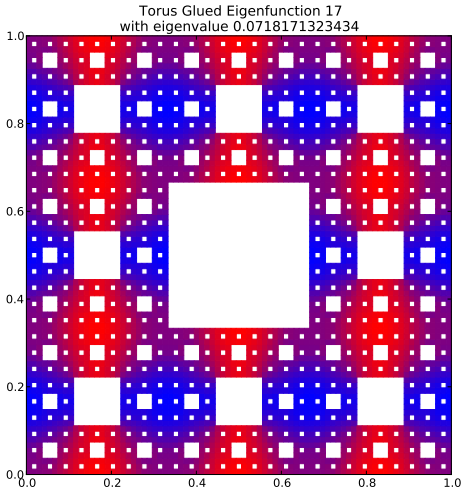


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.156897659541$
Dot Value: 0.00026798531625094046

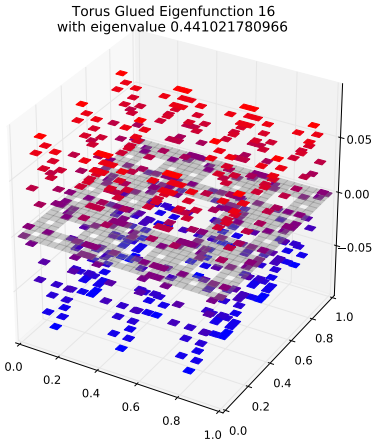
18 $M = 4$ Eigenfunction 17

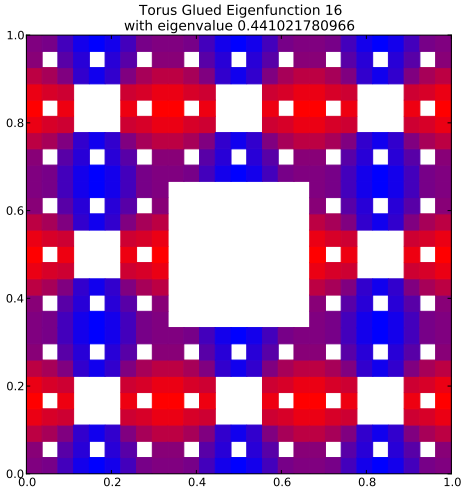
$M = 4$ Eigenfunction 17 has eigenvalue 0.0718171323434





Compare to $m = 3$ eigenspace with eigenvalue 0.441021780966

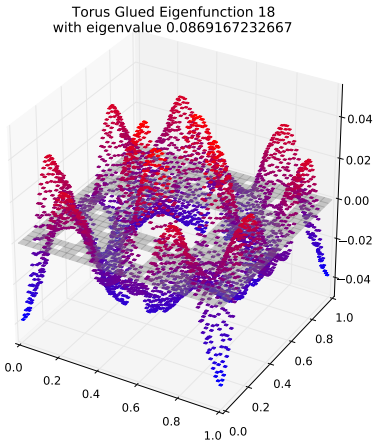


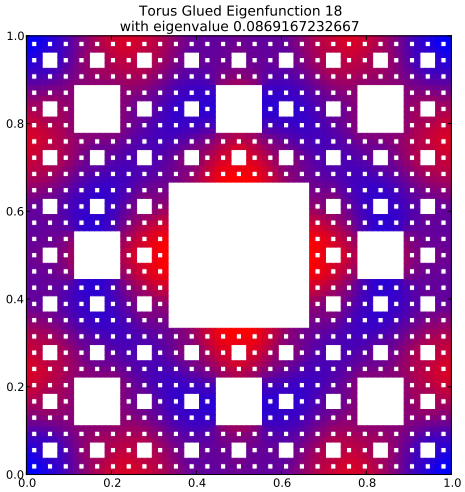


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.162842597447$
Dot Value: 0.0003112650688600338

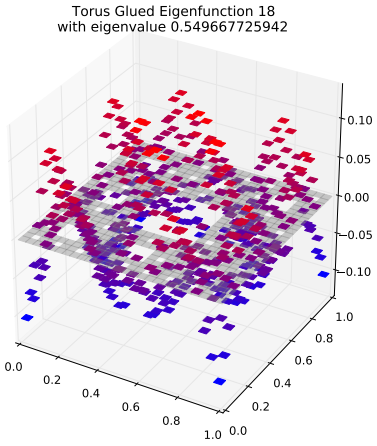
19 $M = 4$ Eigenfunction 18

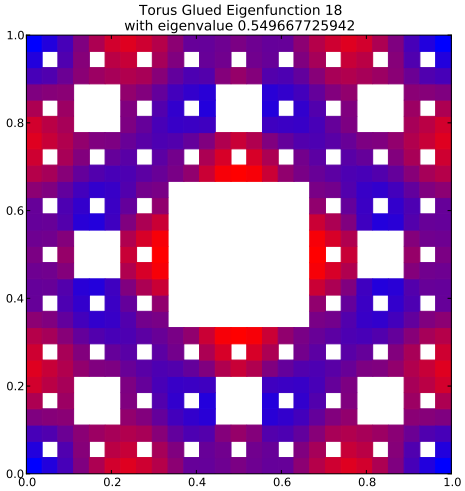
$M = 4$ Eigenfunction 18 has eigenvalue 0.0869167232667





Compare to $m = 3$ eigenspace with eigenvalue 0.549667725942

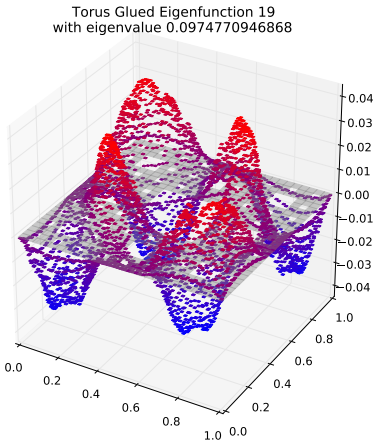


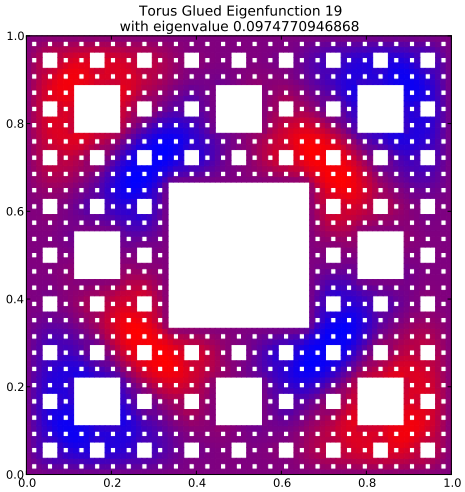


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.158125935296$
Dot Value: 0.0031864145977927 86

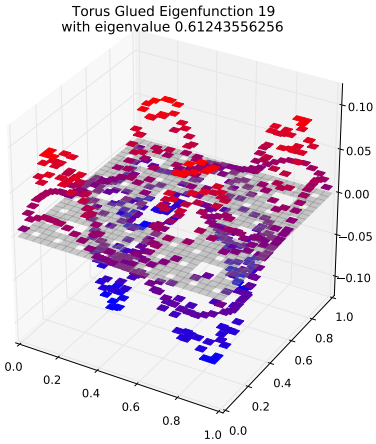
20 $M = 4$ Eigenfunction 19

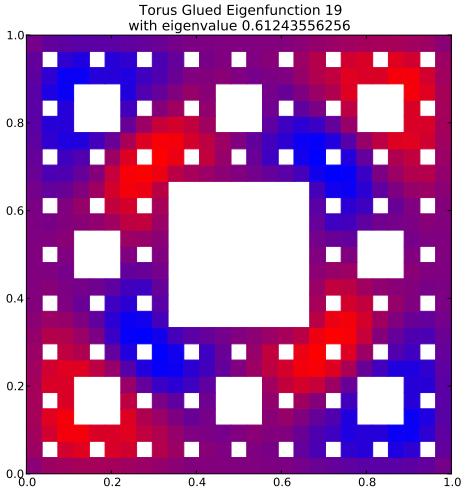
$M = 4$ Eigenfunction 19 has eigenvalue 0.0974770946868





Compare to $m = 3$ eigenspace with eigenvalue 0.61243556256

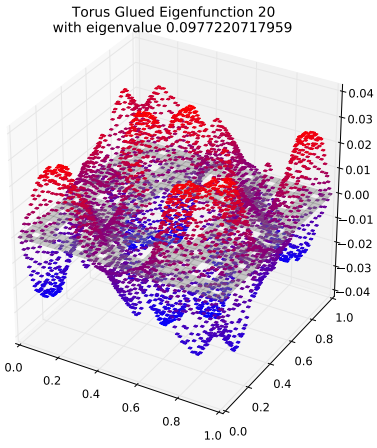


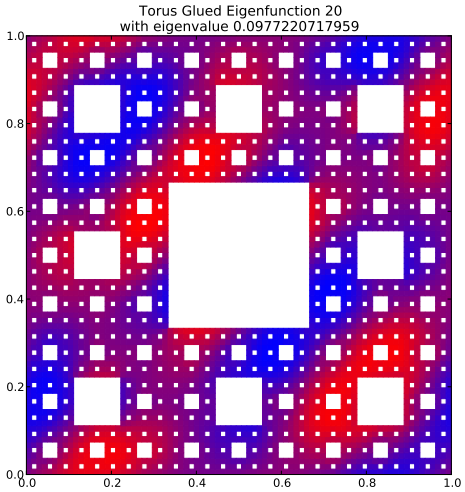


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.159163021624$
Dot Value: 0.0011745562830310918

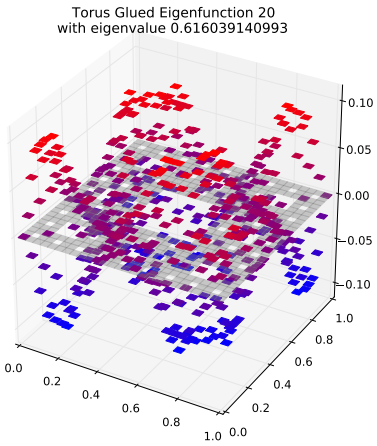
21 $M = 4$ Eigenfunction 20

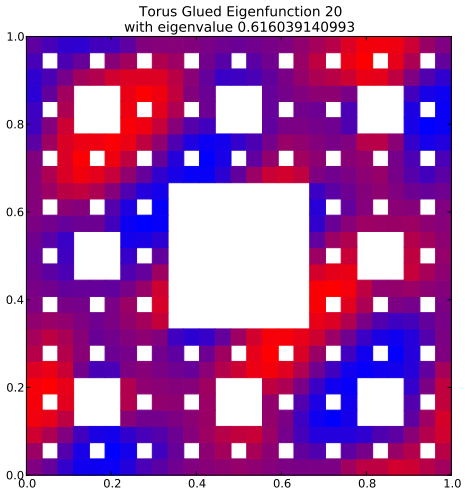
$M = 4$ Eigenfunction 20 has eigenvalue 0.0977220717959





Compare to $m = 3$ eigenspace with eigenvalue 0.616039140993
(Note: Eigenspace Dimension > 1)

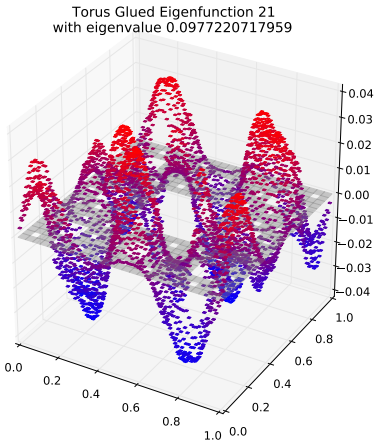


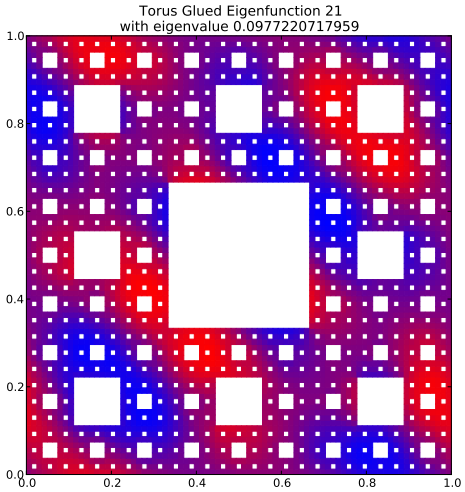


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.158629647523$
Dot Value: 0.0048816469107738625

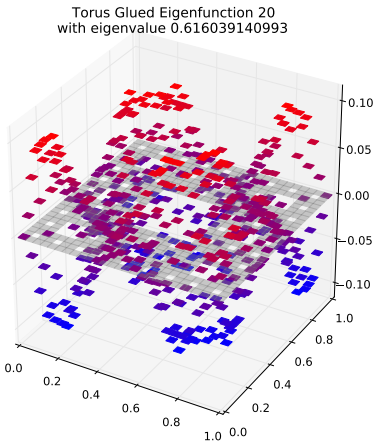
22 $M = 4$ Eigenfunction 21

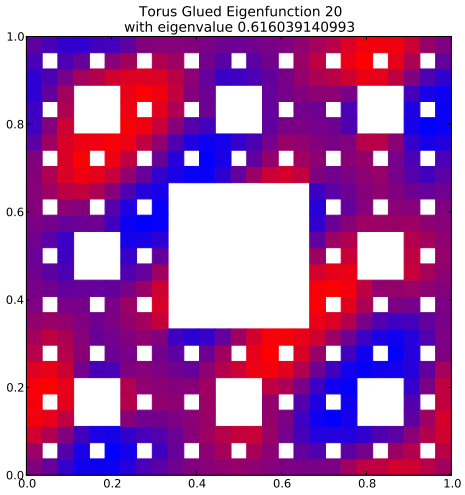
$M = 4$ Eigenfunction 21 has eigenvalue 0.0977220717959





Compare to $m = 3$ eigenspace with eigenvalue 0.616039140993
(Note: Eigenspace Dimension > 1)

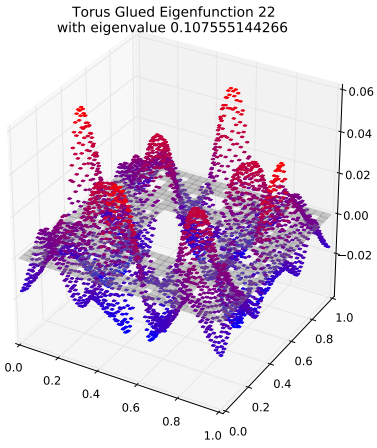


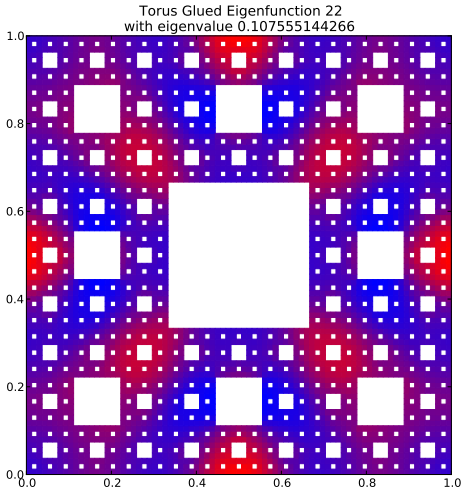


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.158629647523$
Dot Value: 0.0048816469107737515

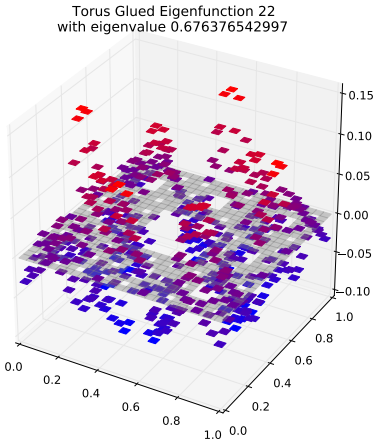
23 $M = 4$ Eigenfunction 22

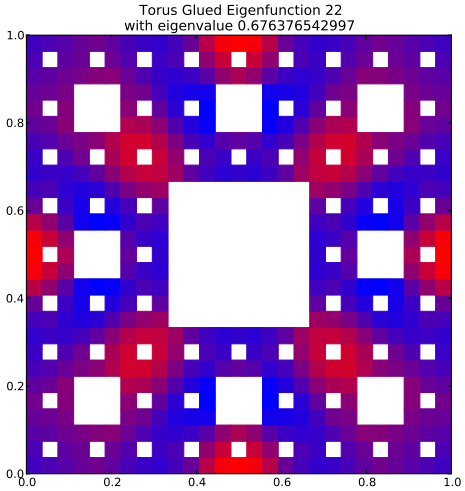
$M = 4$ Eigenfunction 22 has eigenvalue 0.107555144266





Compare to $m = 3$ eigenspace with eigenvalue 0.676376542997

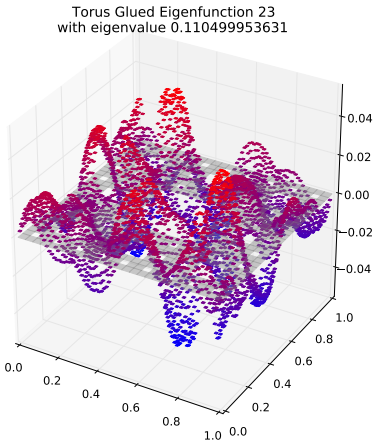


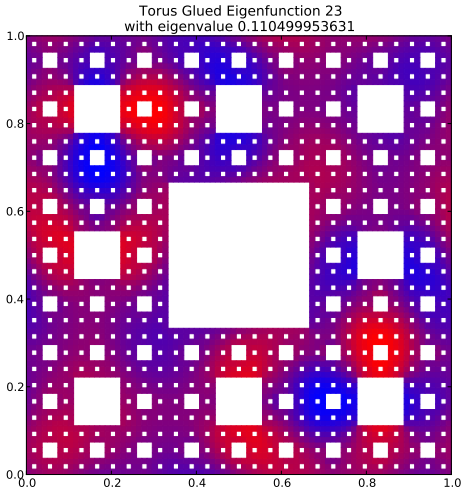


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.159016668126$
Dot Value: 0.00366215039378337

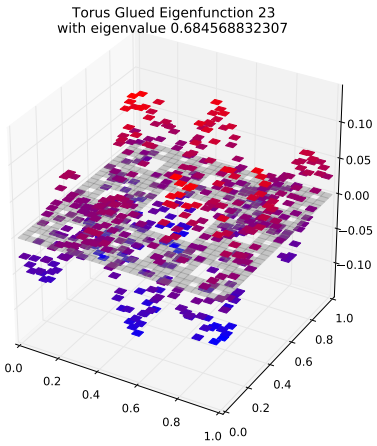
24 $M = 4$ Eigenfunction 23

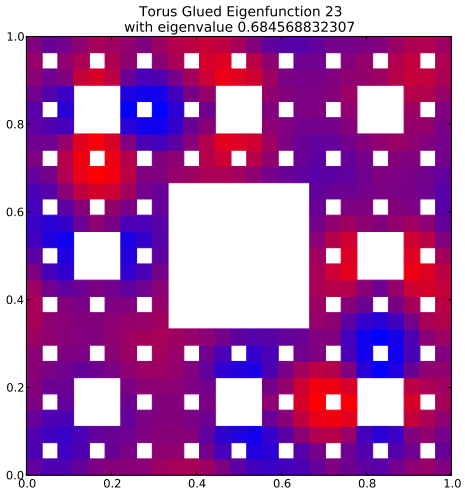
$M = 4$ Eigenfunction 23 has eigenvalue 0.110499953631





Compare to $m = 3$ eigenspace with eigenvalue 0.684568832307
(Note: Eigenspace Dimension > 1)

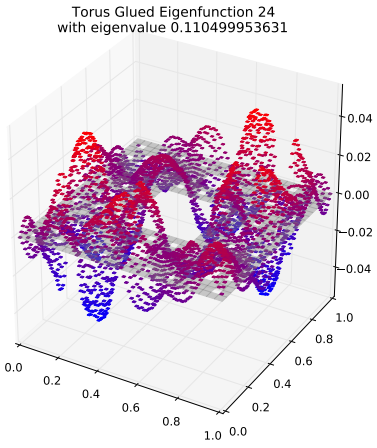


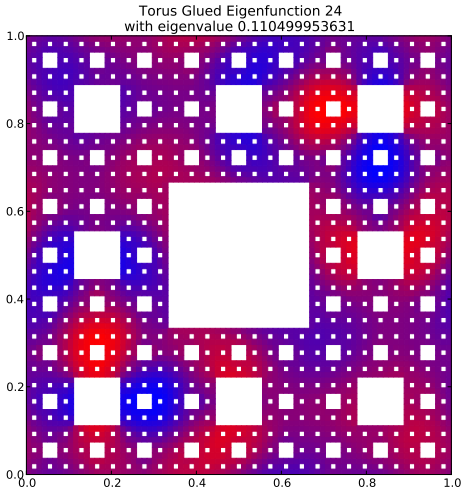


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.161415402537$
Dot Value: 0.005646064145649388

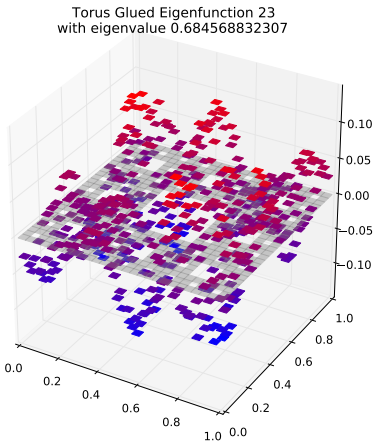
25 $M = 4$ Eigenfunction 24

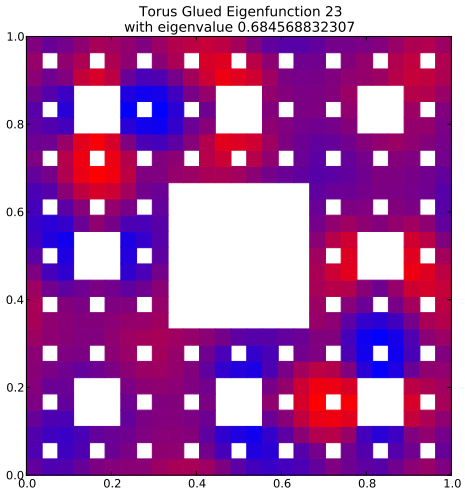
$M = 4$ Eigenfunction 24 has eigenvalue 0.110499953631





Compare to $m = 3$ eigenspace with eigenvalue 0.684568832307
(Note: Eigenspace Dimension > 1)

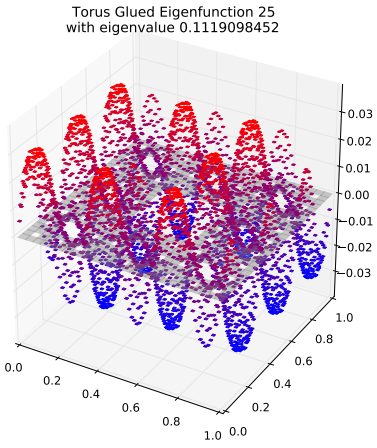


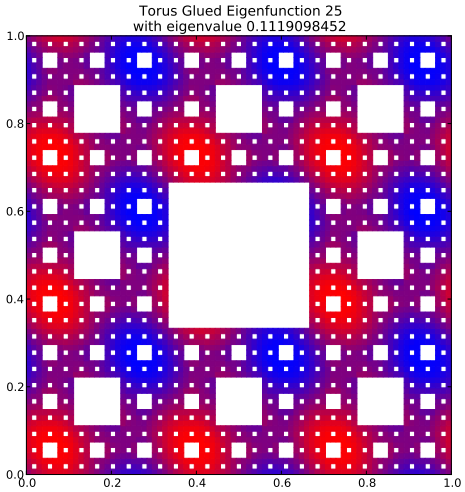


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.161415402537$
Dot Value: 0.005646064145649277

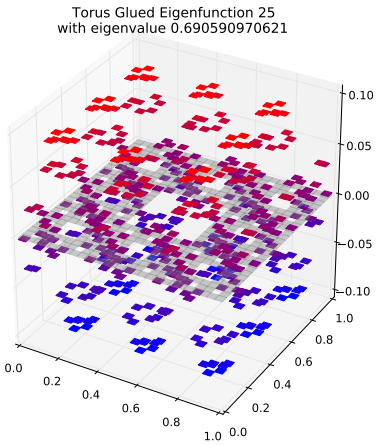
26 $M = 4$ Eigenfunction 25

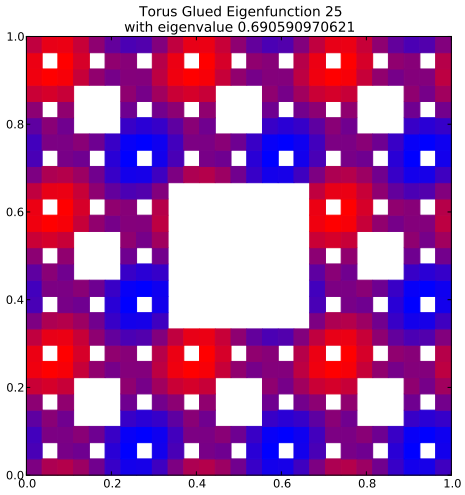
$M = 4$ Eigenfunction 25 has eigenvalue 0.1119098452





Compare to $m = 3$ eigenspace with eigenvalue 0.690590970621
(Note: Eigenspace Dimension > 1)

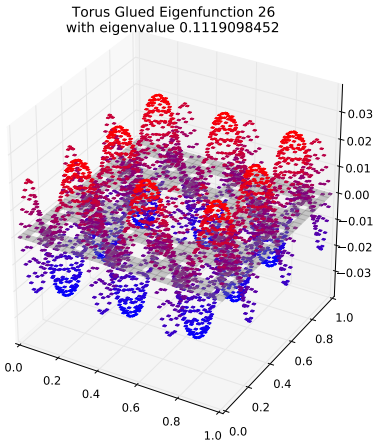


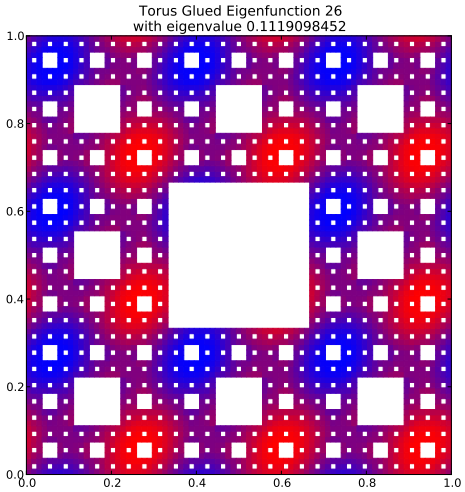


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.162049389524$
Dot Value: 0.0008691073914721681

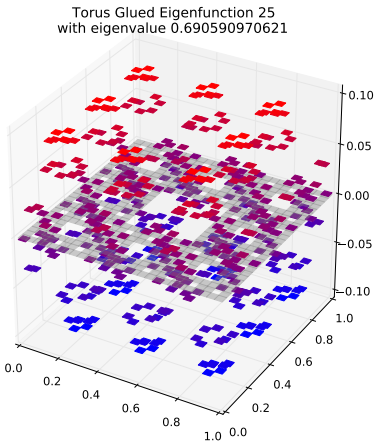
27 $M = 4$ Eigenfunction 26

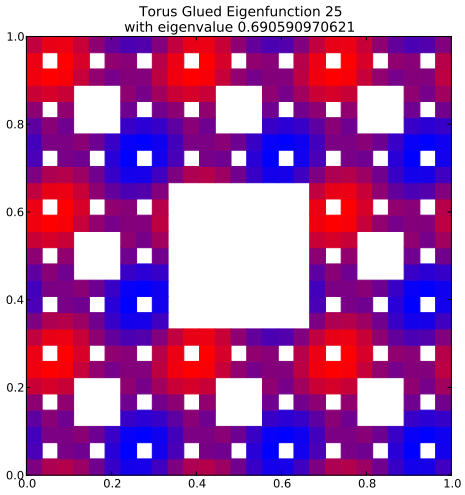
$M = 4$ Eigenfunction 26 has eigenvalue 0.1119098452





Compare to $m = 3$ eigenspace with eigenvalue 0.690590970621
(Note: Eigenspace Dimension > 1)

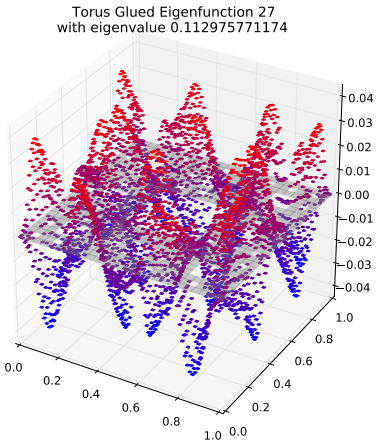


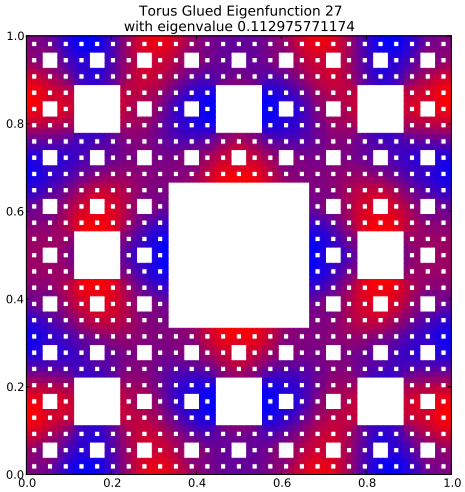


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.162049389524$
Dot Value: 0.0008691073914721681

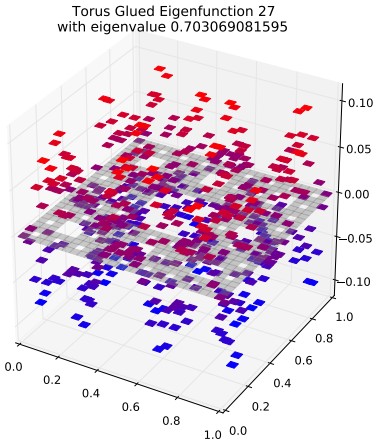
28 $M = 4$ Eigenfunction 27

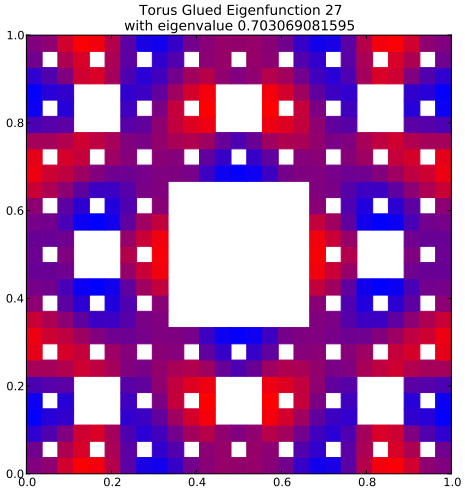
$M = 4$ Eigenfunction 27 has eigenvalue 0.112975771174





Compare to $m = 3$ eigenspace with eigenvalue 0.703069081595

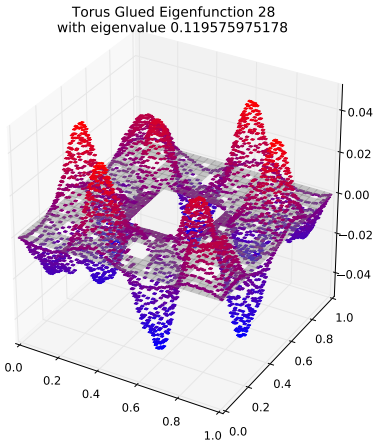


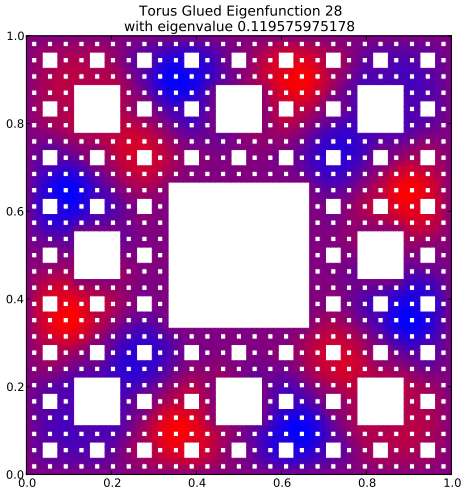


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.160689431709$
Dot Value: 0.002994545992954345

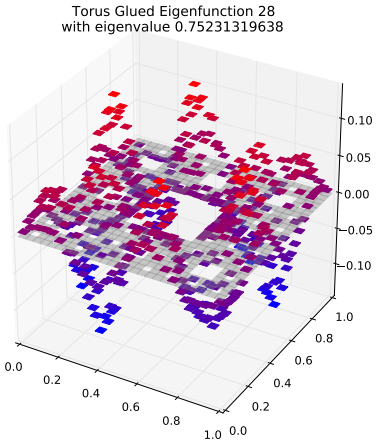
29 $M = 4$ Eigenfunction 28

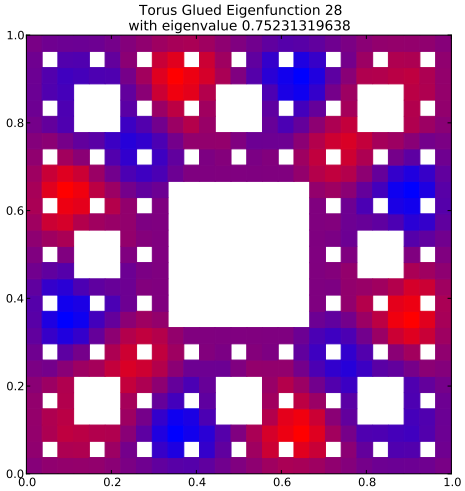
$M = 4$ Eigenfunction 28 has eigenvalue 0.119575975178





Compare to $m = 3$ eigenspace with eigenvalue 0.75231319638

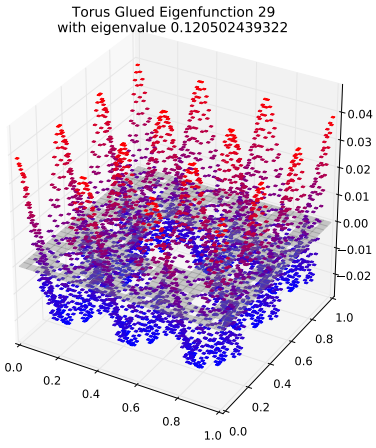


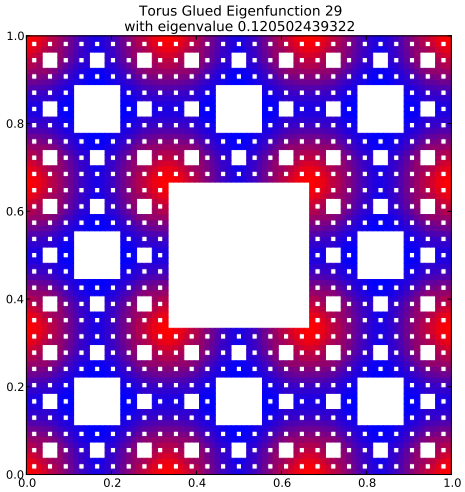


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.158944407401$
Dot Value: 0.00136123120384734 62

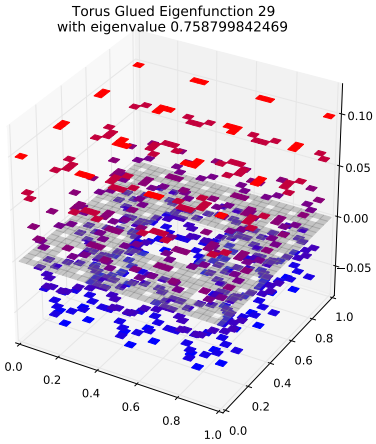
30 $M = 4$ Eigenfunction 29

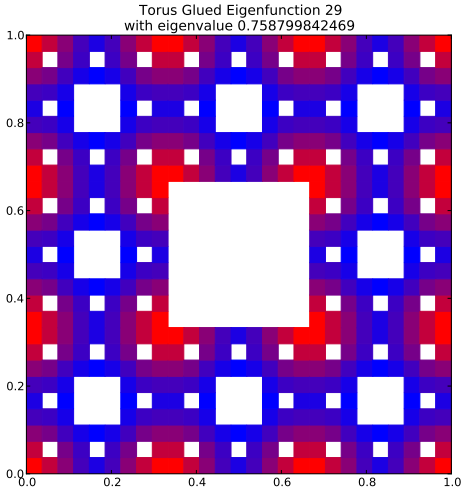
$M = 4$ Eigenfunction 29 has eigenvalue 0.120502439322





Compare to $m = 3$ eigenspace with eigenvalue 0.758799842469

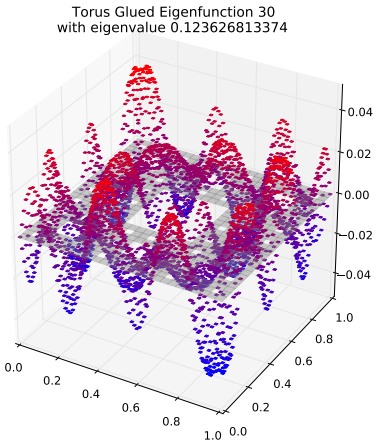


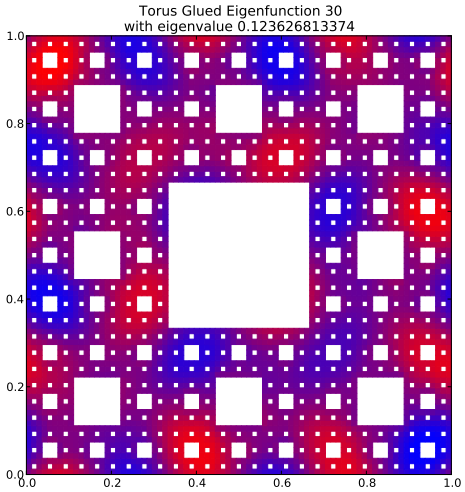


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.158806621427$
Dot Value: 0.00061818360742549 32

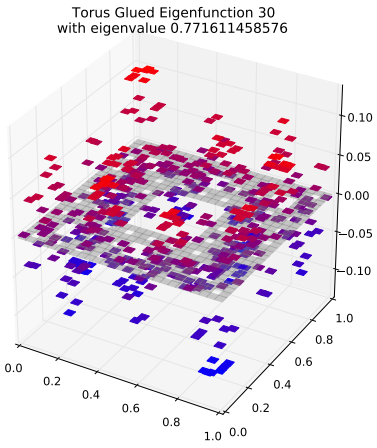
31 $M = 4$ Eigenfunction 30

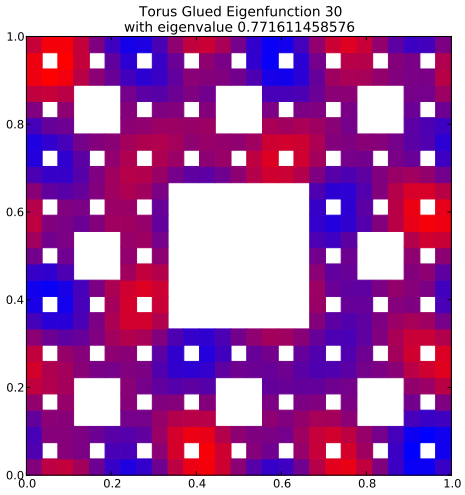
$M = 4$ Eigenfunction 30 has eigenvalue 0.123626813374





Compare to $m = 3$ eigenspace with eigenvalue 0.771611458576
(Note: Eigenspace Dimension > 1)

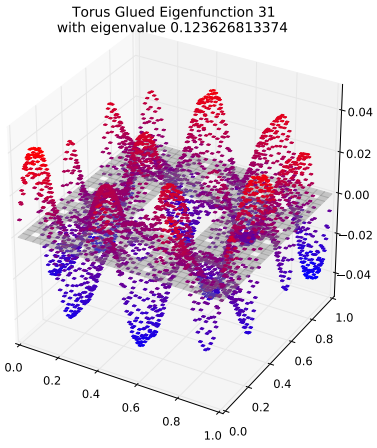


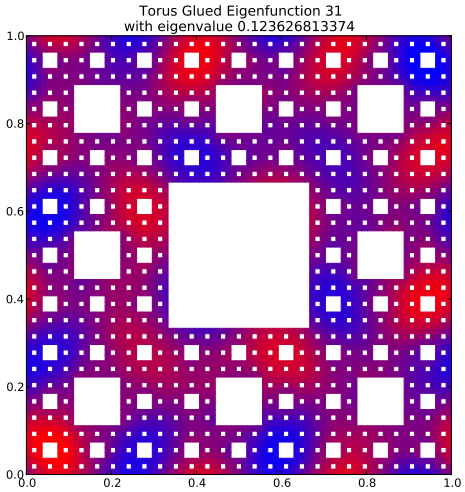


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.160218996231$
Dot Value: 0.00125137416235562

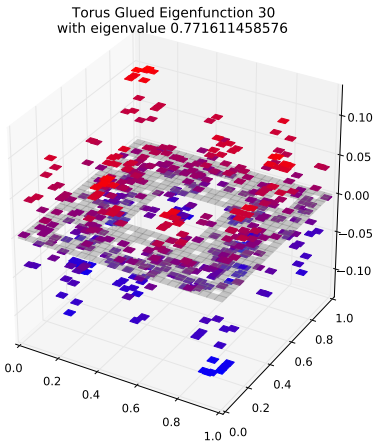
32 $M = 4$ Eigenfunction 31

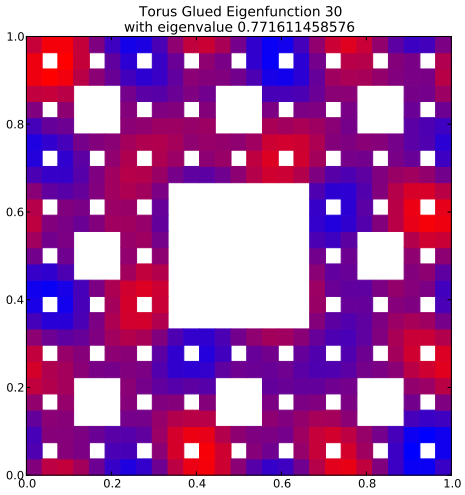
$M = 4$ Eigenfunction 31 has eigenvalue 0.123626813374





Compare to $m = 3$ eigenspace with eigenvalue 0.771611458576
(Note: Eigenspace Dimension > 1)

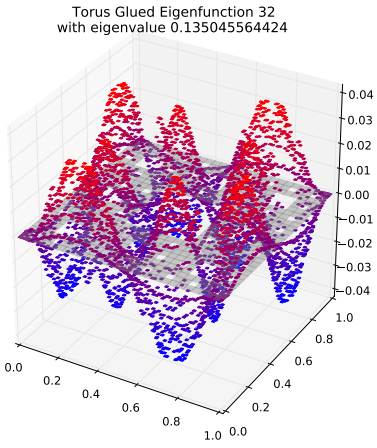


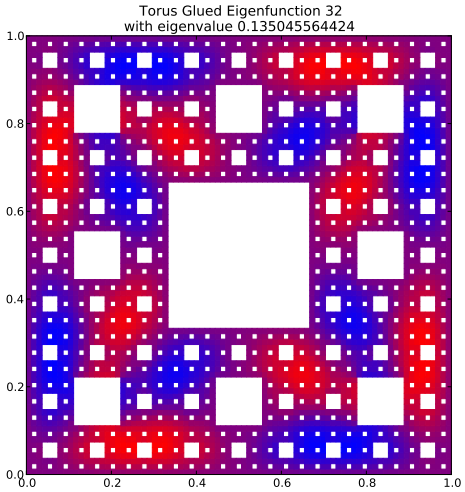


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.160218996231$
Dot Value: 0.0012513741623554342

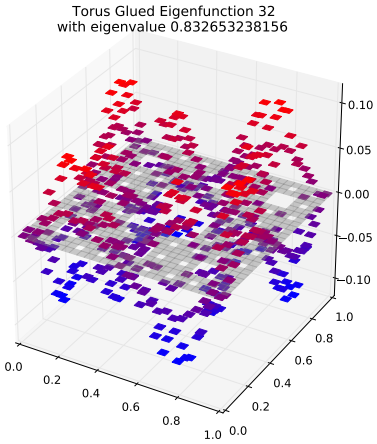
33 $M = 4$ Eigenfunction 32

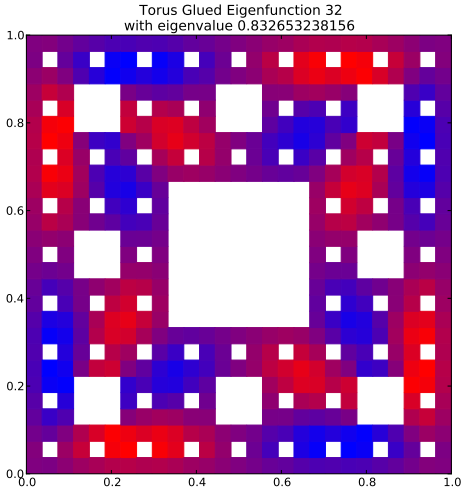
$M = 4$ Eigenfunction 32 has eigenvalue 0.135045564424





Compare to $m = 3$ eigenspace with eigenvalue 0.832653238156

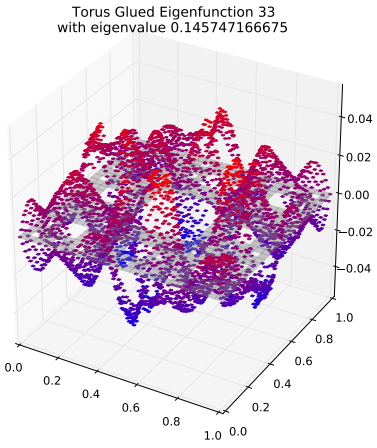


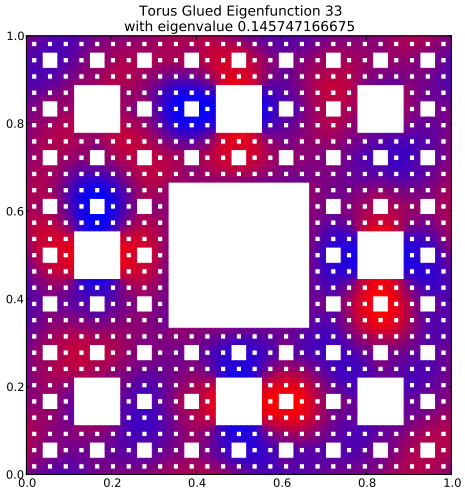


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.162187040458$
Dot Value: 0.00409369338530452

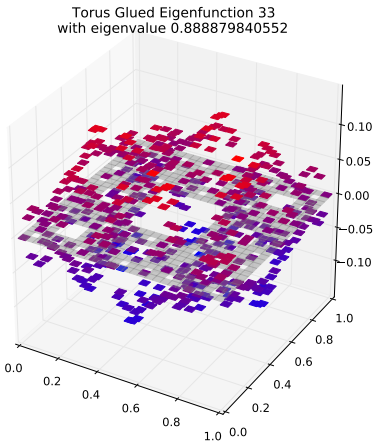
34 $M = 4$ Eigenfunction 33

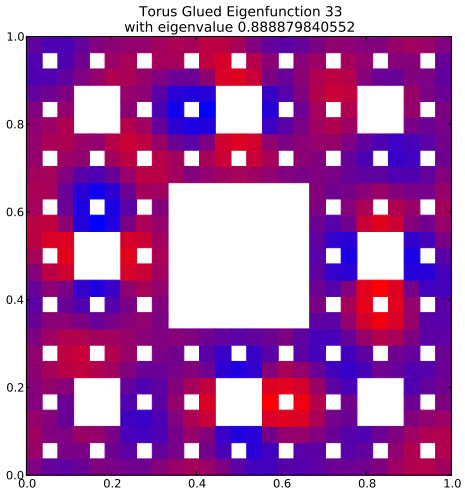
$M = 4$ Eigenfunction 33 has eigenvalue 0.145747166675





Compare to $m = 3$ eigenspace with eigenvalue 0.888879840552
(Note: Eigenspace Dimension > 1)

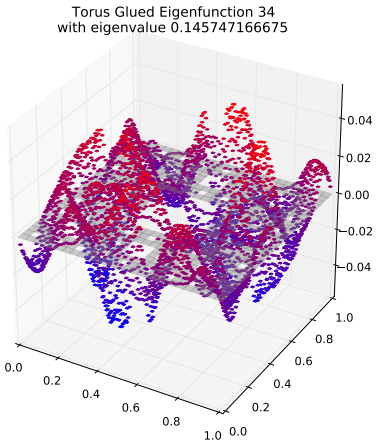


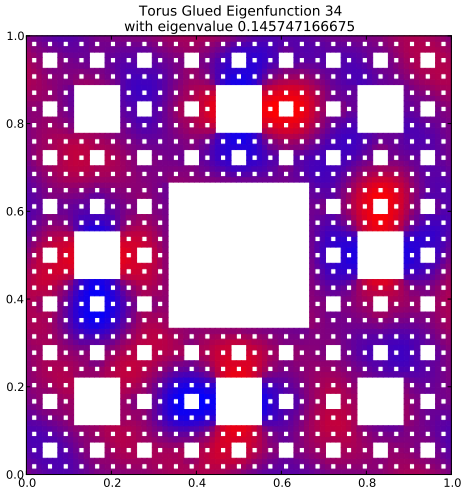


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.163967231594$
Dot Value: 0.006895285161084175

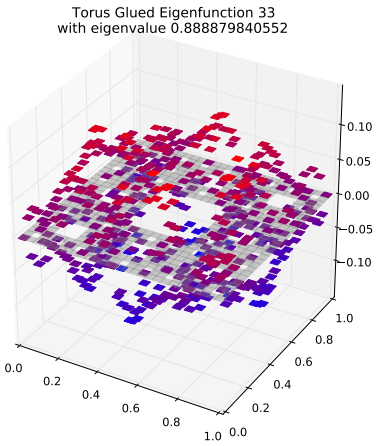
35 $M = 4$ Eigenfunction 34

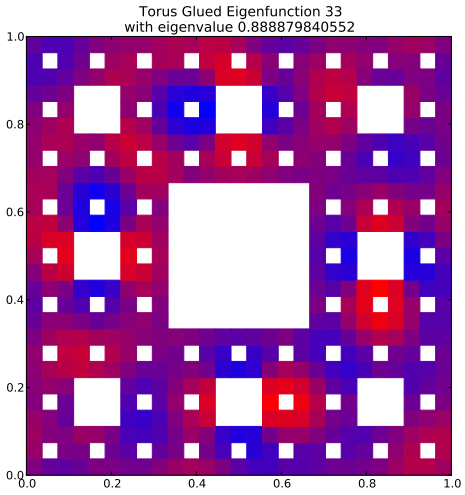
$M = 4$ Eigenfunction 34 has eigenvalue 0.145747166675





Compare to $m = 3$ eigenspace with eigenvalue 0.888879840552
(Note: Eigenspace Dimension > 1)

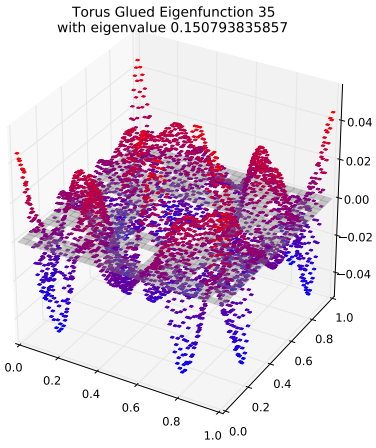


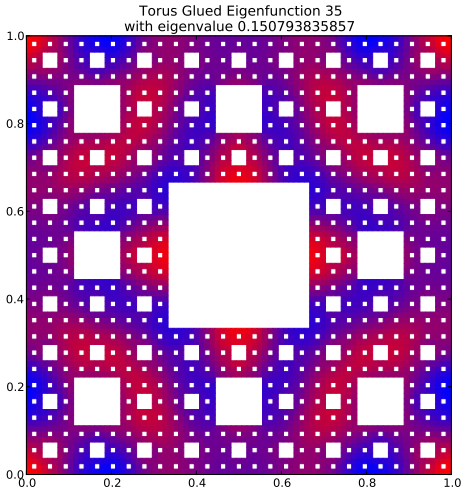


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.163967231594$
Dot Value: 0.006895285161088394

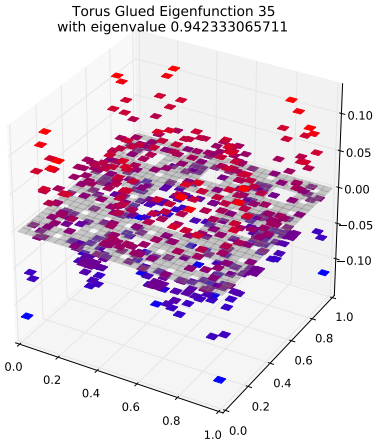
36 $M = 4$ Eigenfunction 35

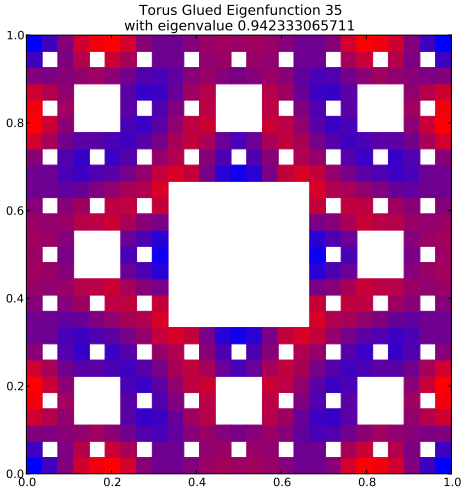
$M = 4$ Eigenfunction 35 has eigenvalue 0.150793835857





Compare to $m = 3$ eigenspace with eigenvalue 0.942333065711

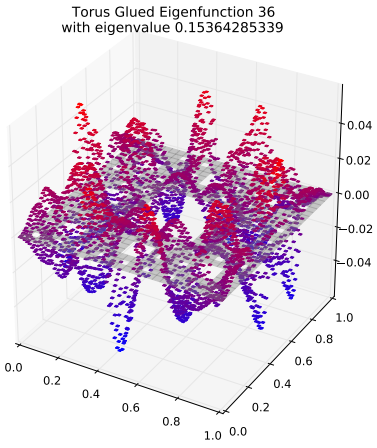


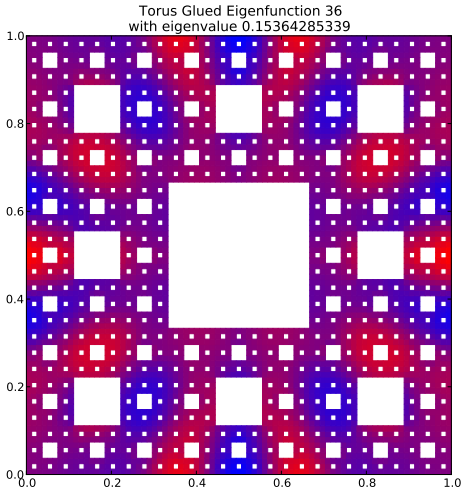


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.160021802634$
Dot Value: 0.002098094671573403

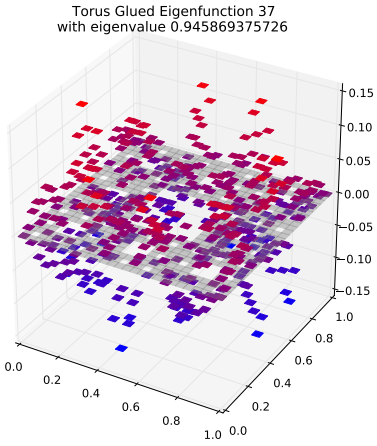
37 $M = 4$ Eigenfunction 36

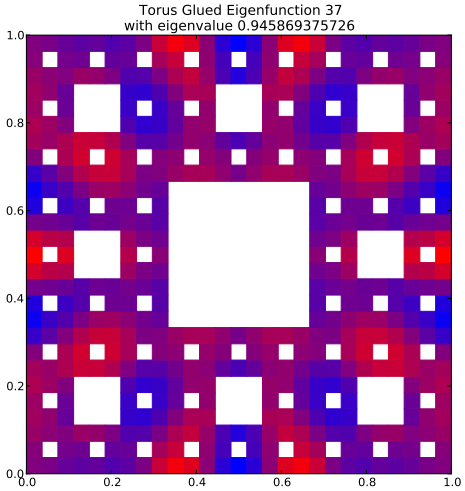
$M = 4$ Eigenfunction 36 has eigenvalue 0.15364285339





Compare to $m = 3$ eigenspace with eigenvalue 0.945869375726

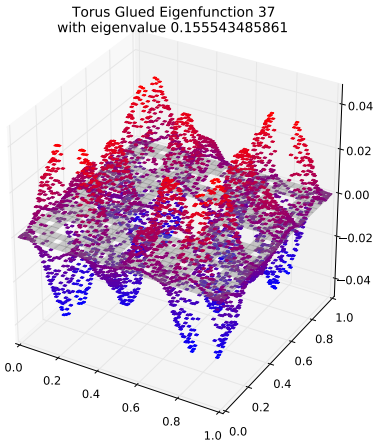


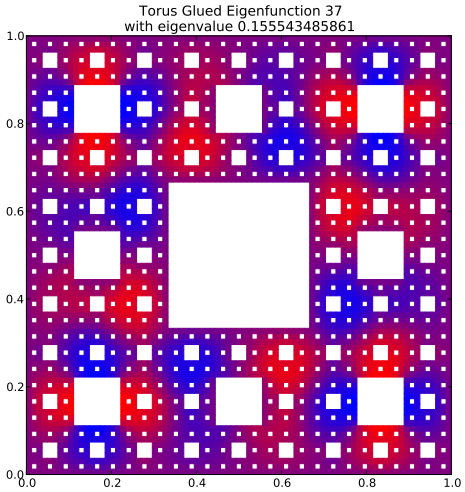


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.162435593469$
Dot Value: 0.007810743552552846

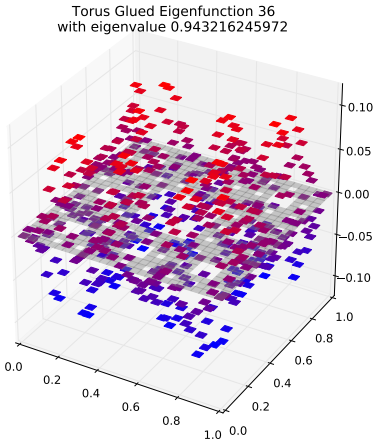
38 $M = 4$ Eigenfunction 37

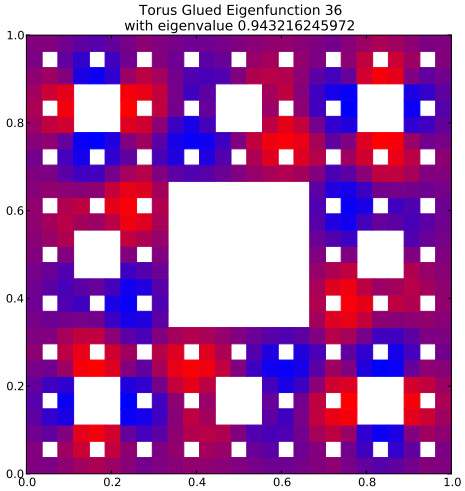
$M = 4$ Eigenfunction 37 has eigenvalue 0.155543485861





Compare to $m = 3$ eigenspace with eigenvalue 0.943216245972

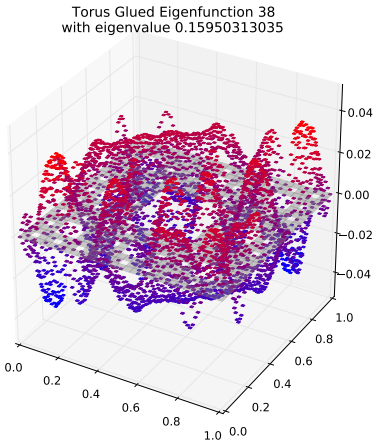


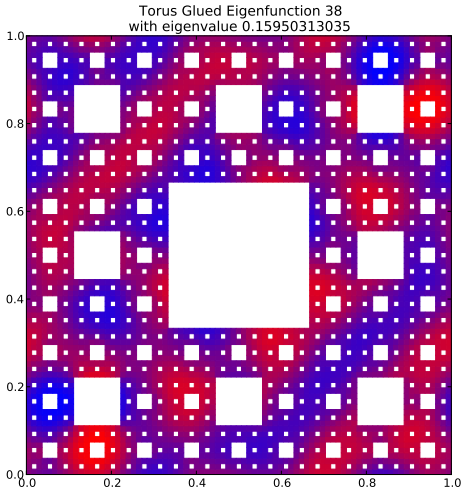


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.164907555956$
Dot Value: 0.0040041096418772515

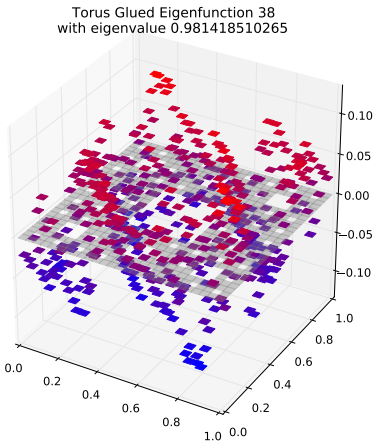
39 $M = 4$ Eigenfunction 38

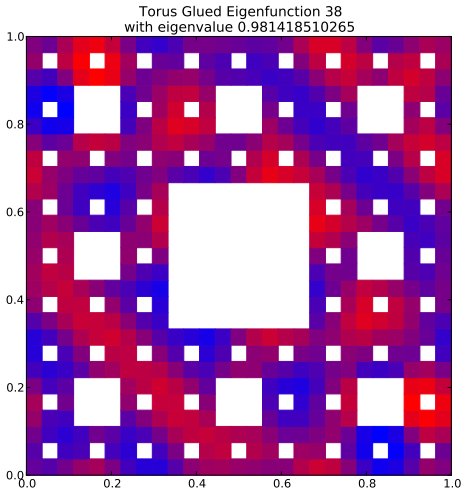
$M = 4$ Eigenfunction 38 has eigenvalue 0.15950313035





Compare to $m = 3$ eigenspace with eigenvalue 0.981418510265
(Note: Eigenspace Dimension > 1)

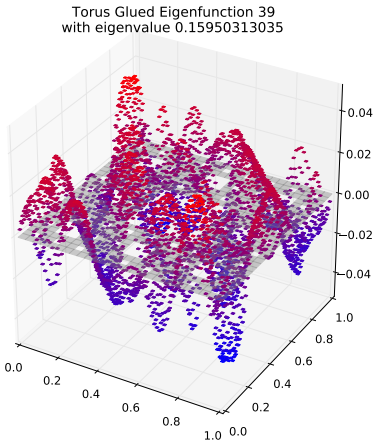


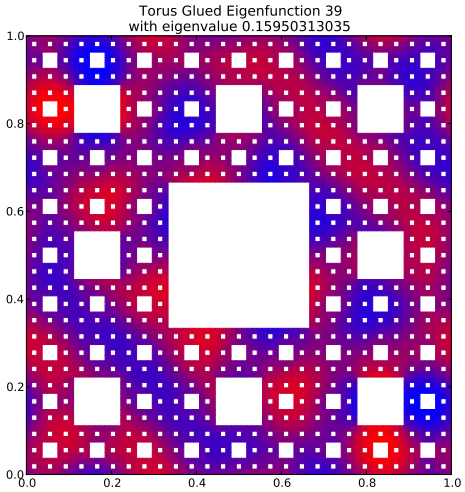


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.162523050749$
Dot Value: 0.0078098372836177266

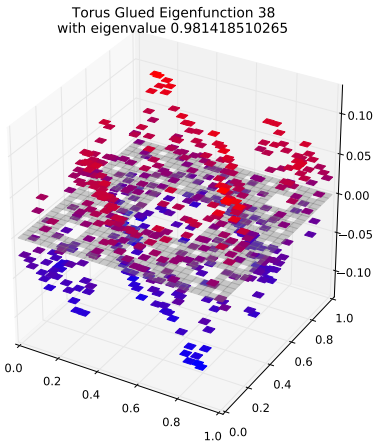
40 $M = 4$ Eigenfunction 39

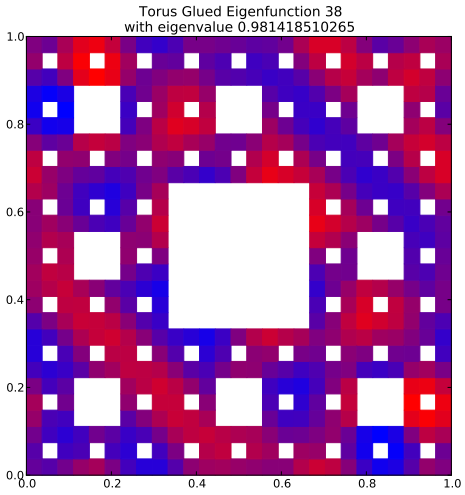
$M = 4$ Eigenfunction 39 has eigenvalue 0.15950313035





Compare to $m = 3$ eigenspace with eigenvalue 0.981418510265
(Note: Eigenspace Dimension > 1)

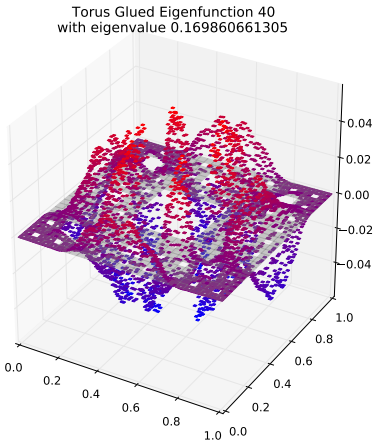


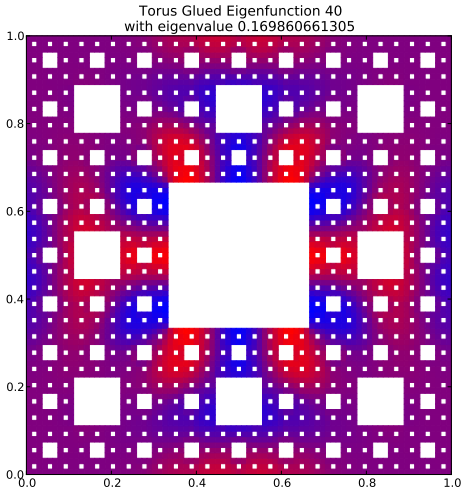


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.162523050749$
Dot Value: 0.007809837283615506

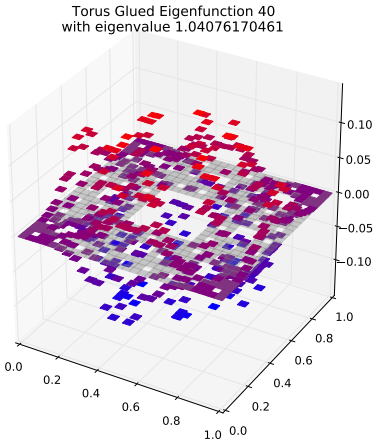
41 $M = 4$ Eigenfunction 40

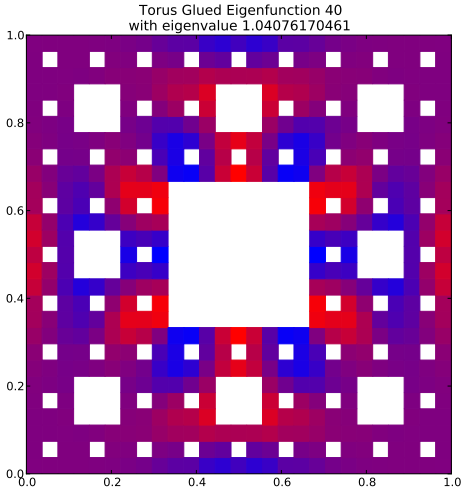
$M = 4$ Eigenfunction 40 has eigenvalue 0.169860661305





Compare to $m = 3$ eigenspace with eigenvalue 1.04076170461

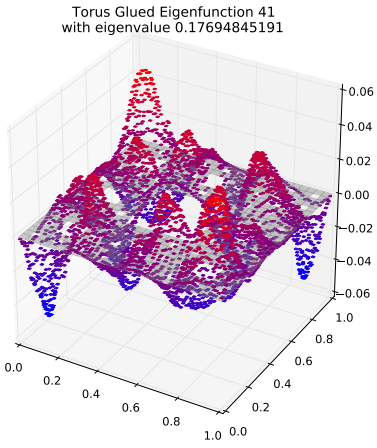


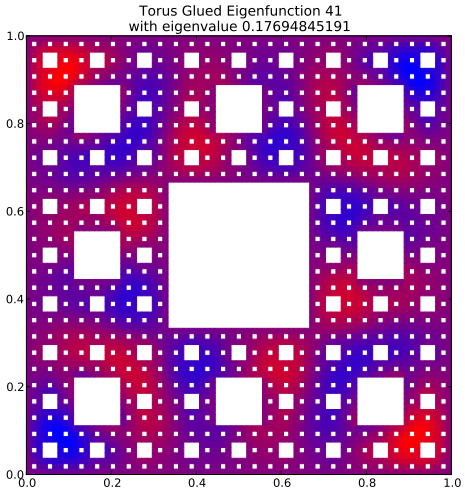


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.163208024039$
Dot Value: 0.005487726712087526

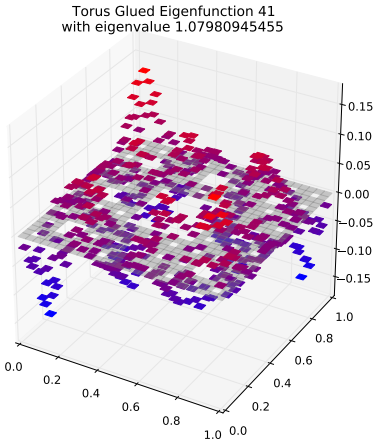
42 $M = 4$ Eigenfunction 41

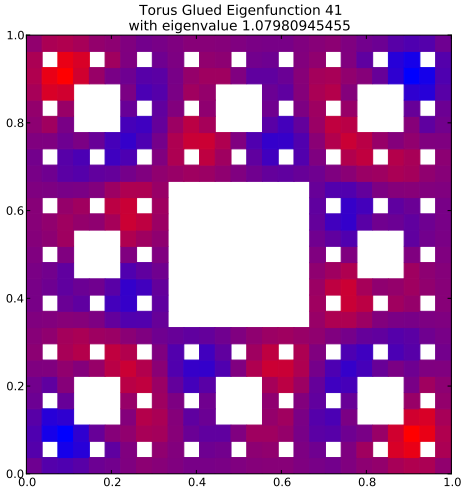
$M = 4$ Eigenfunction 41 has eigenvalue 0.17694845191





Compare to $m = 3$ eigenspace with eigenvalue 1.07980945455

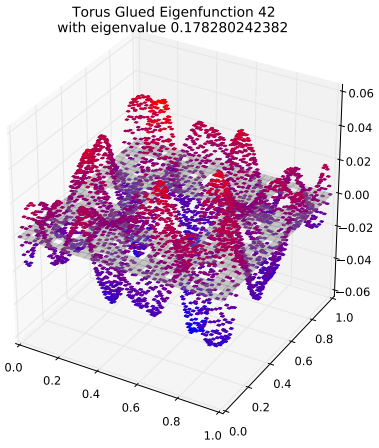


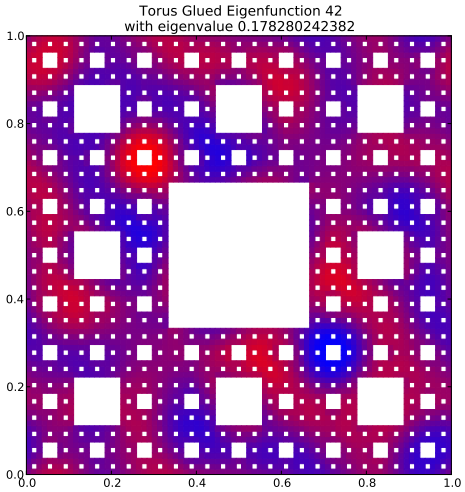


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.163870070932$
Dot Value: 0.0020830245257009716

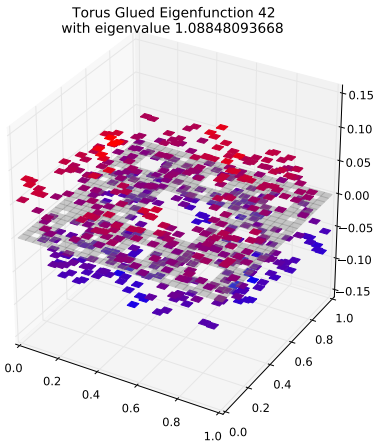
43 $M = 4$ Eigenfunction 42

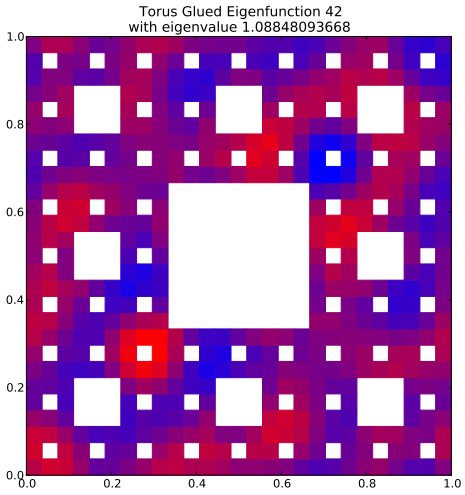
$M = 4$ Eigenfunction 42 has eigenvalue 0.178280242382





Compare to $m = 3$ eigenspace with eigenvalue 1.08848093668
(Note: Eigenspace Dimension > 1)

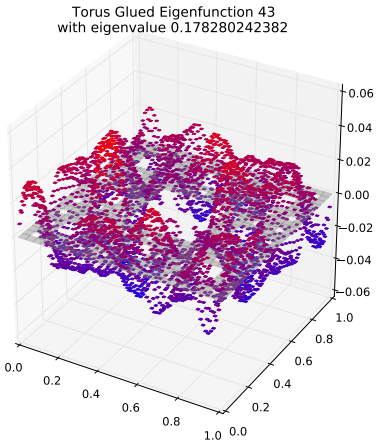


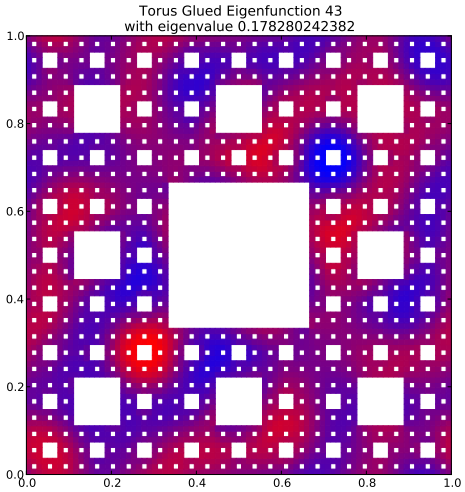


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.163788116424$
Dot Value: 0.0029603117375145427

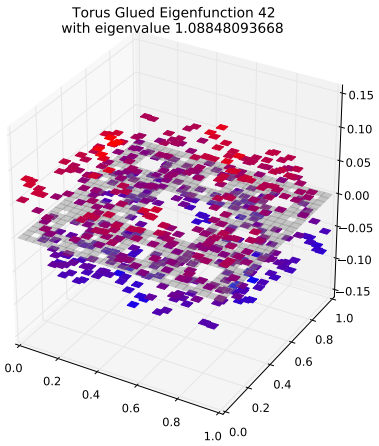
44 $M = 4$ Eigenfunction 43

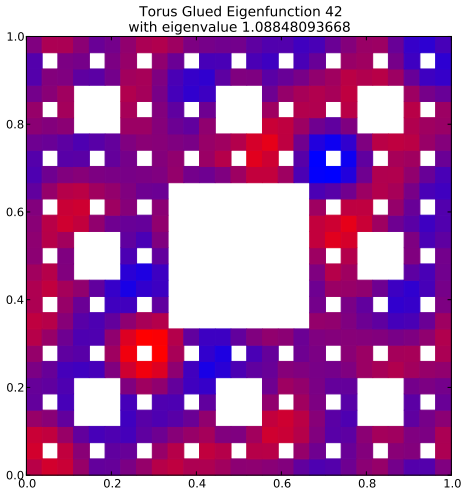
$M = 4$ Eigenfunction 43 has eigenvalue 0.178280242382





Compare to $m = 3$ eigenspace with eigenvalue 1.08848093668
(Note: Eigenspace Dimension > 1)

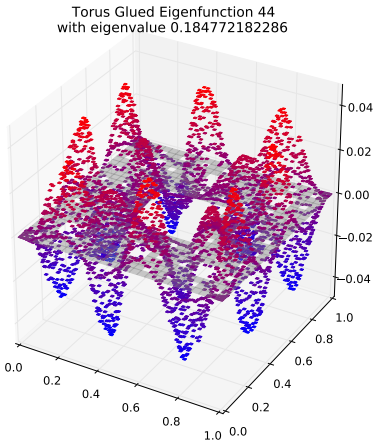


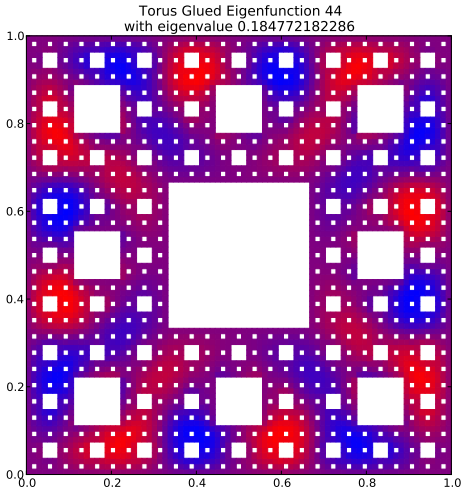


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.163788116424$
Dot Value: 0.002960311737515431

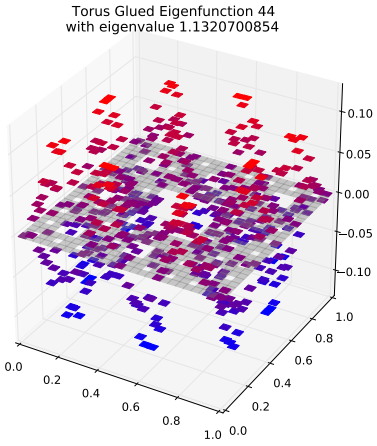
45 $M = 4$ Eigenfunction 44

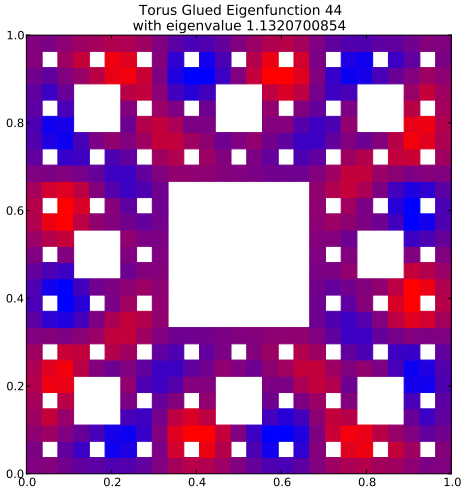
$M = 4$ Eigenfunction 44 has eigenvalue 0.184772182286





Compare to $m = 3$ eigenspace with eigenvalue 1.1320700854

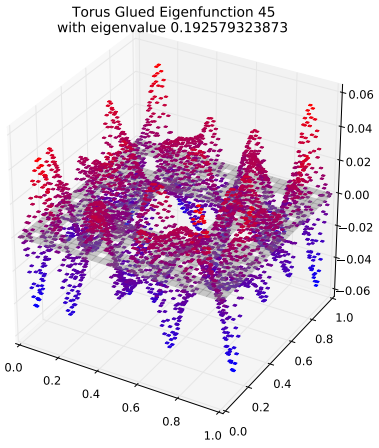


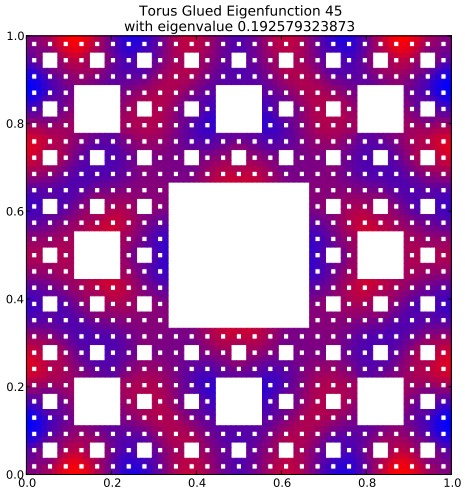


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.163216204252$
Dot Value: 0.0025642974624843218

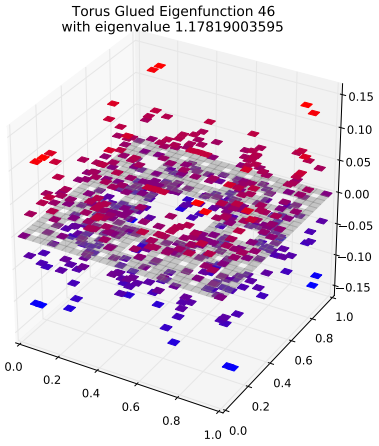
46 $M = 4$ Eigenfunction 45

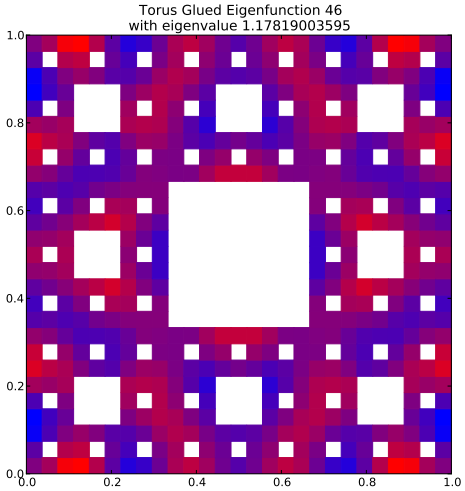
$M = 4$ Eigenfunction 45 has eigenvalue 0.192579323873





Compare to $m = 3$ eigenspace with eigenvalue 1.17819003595

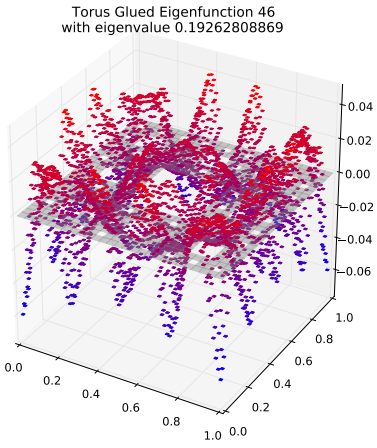


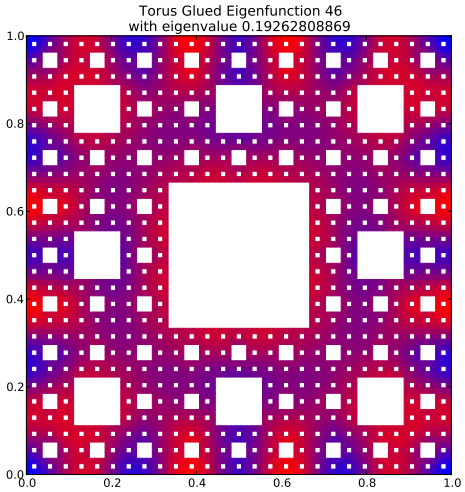


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.163453532958$
Dot Value: 0.0031067537279582114

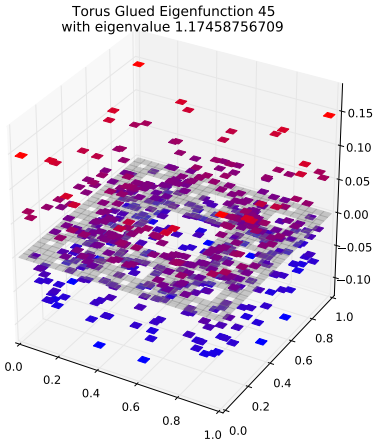
47 $M = 4$ Eigenfunction 46

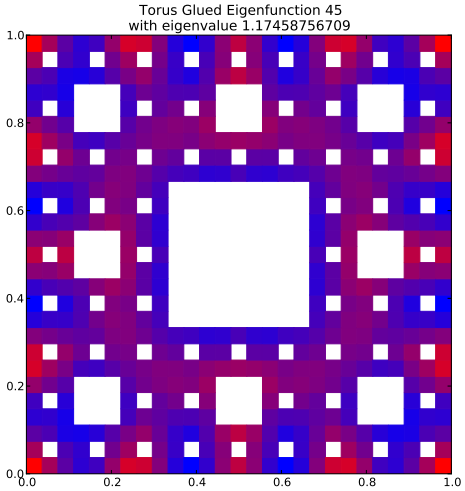
$M = 4$ Eigenfunction 46 has eigenvalue 0.19262808869





Compare to $m = 3$ eigenspace with eigenvalue 1.17458756709

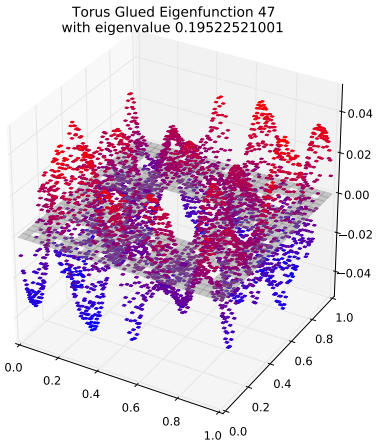


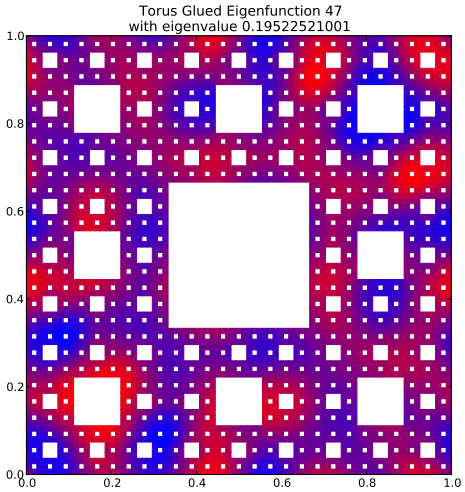


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.163996362712$
Dot Value: 0.006324325926818308

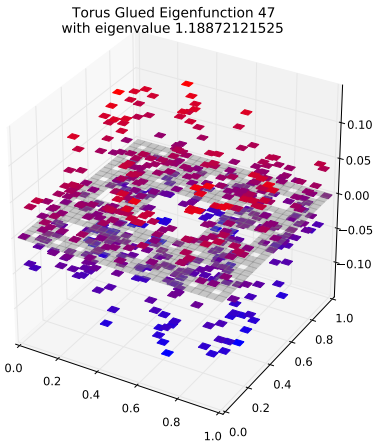
48 $M = 4$ Eigenfunction 47

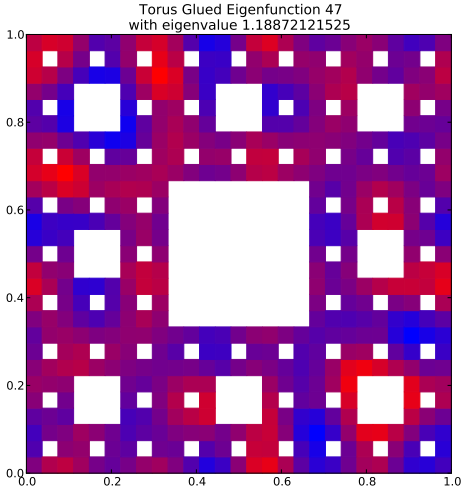
$M = 4$ Eigenfunction 47 has eigenvalue 0.19522521001





Compare to $m = 3$ eigenspace with eigenvalue 1.18872121525
(Note: Eigenspace Dimension > 1)

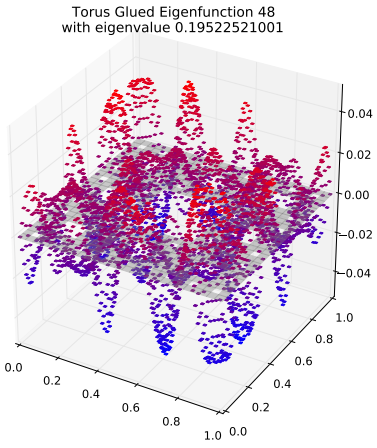


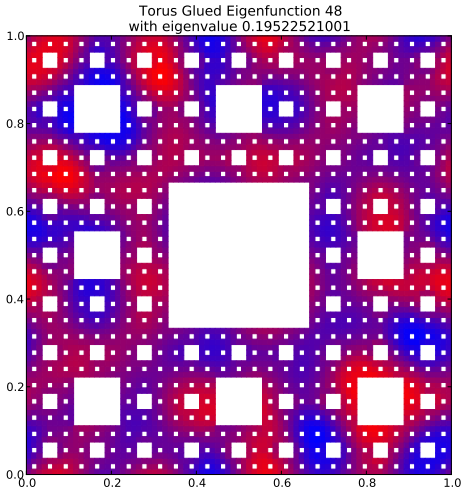


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.164231282748$
Dot Value: 0.004743757662519443

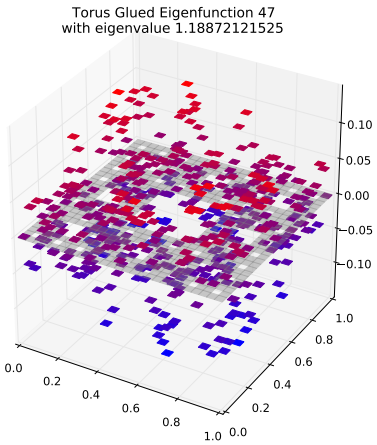
49 $M = 4$ Eigenfunction 48

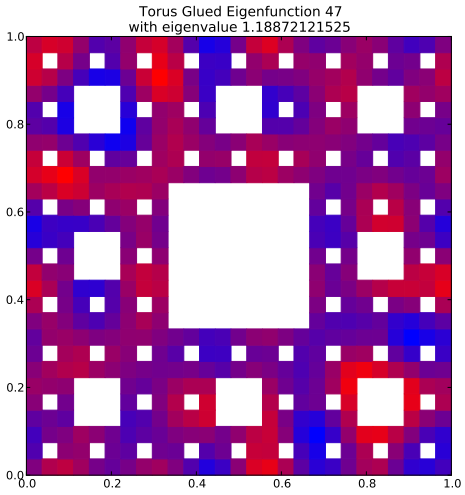
$M = 4$ Eigenfunction 48 has eigenvalue 0.19522521001





Compare to $m = 3$ eigenspace with eigenvalue 1.18872121525
(Note: Eigenspace Dimension > 1)

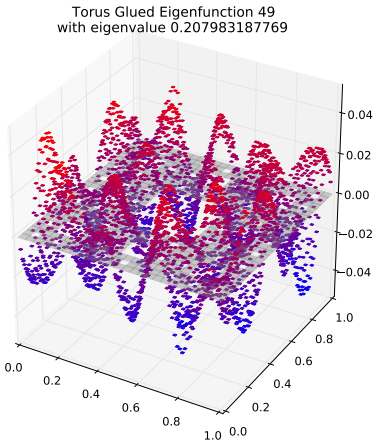


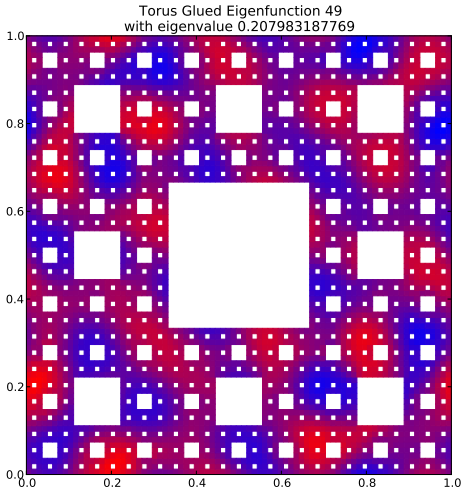


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.164231282748$
Dot Value: 0.004743757662518777

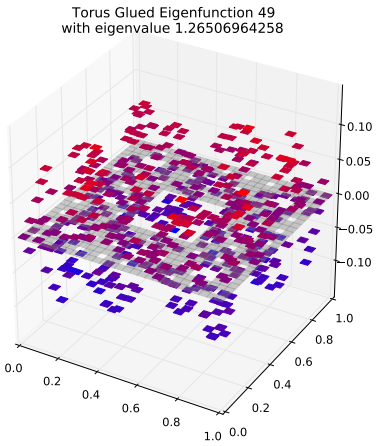
50 $M = 4$ Eigenfunction 49

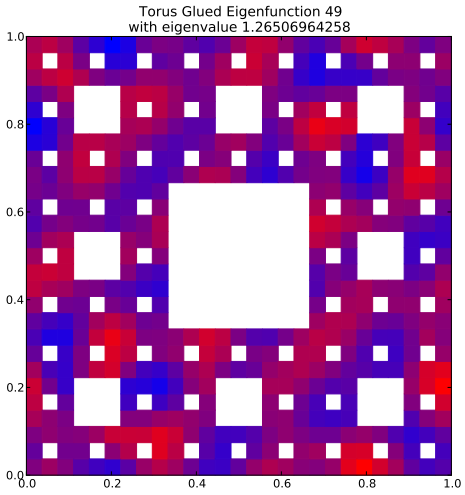
$M = 4$ Eigenfunction 49 has eigenvalue 0.207983187769





Compare to $m = 3$ eigenspace with eigenvalue 1.26506964258
(Note: Eigenspace Dimension > 1)

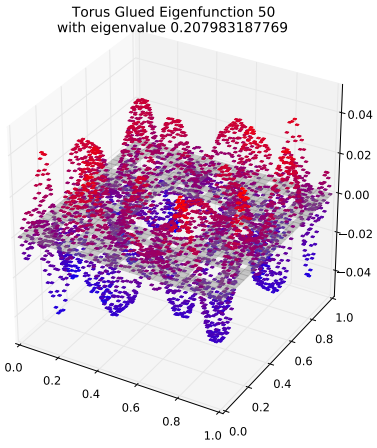


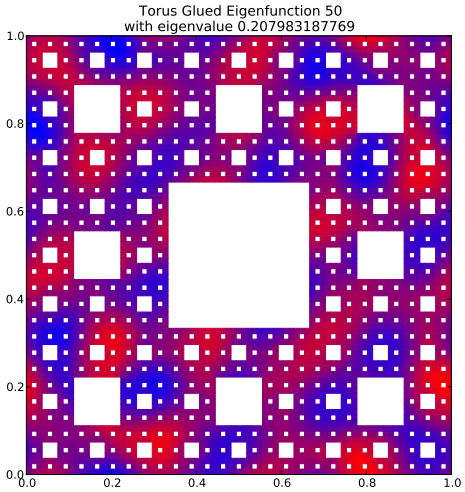


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.164404536137$
Dot Value: 0.005233850299422027

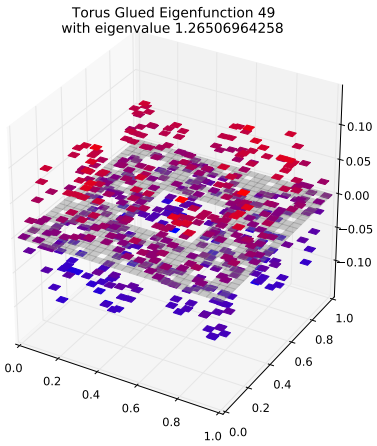
51 $M = 4$ Eigenfunction 50

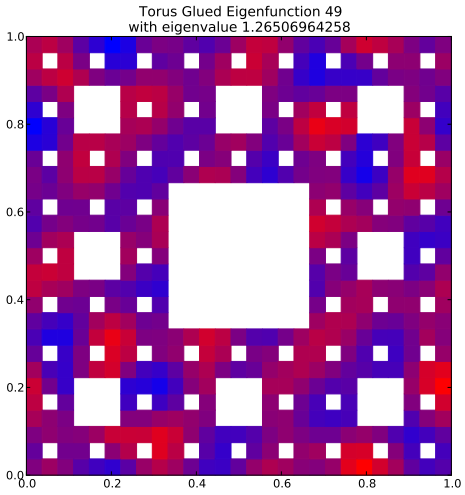
$M = 4$ Eigenfunction 50 has eigenvalue 0.207983187769





Compare to $m = 3$ eigenspace with eigenvalue 1.26506964258
(Note: Eigenspace Dimension > 1)

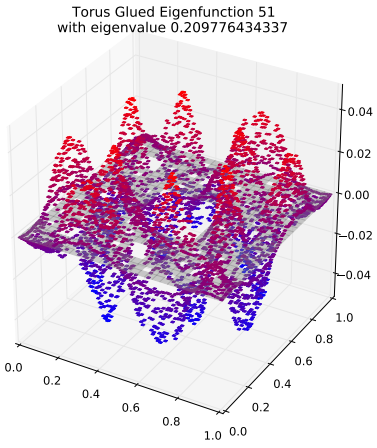


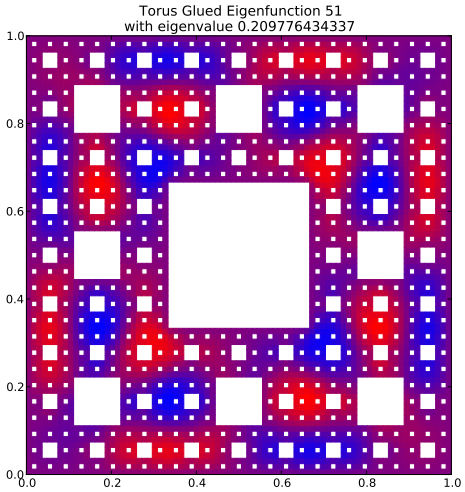


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.164404536137$
Dot Value: 0.005233850299421361

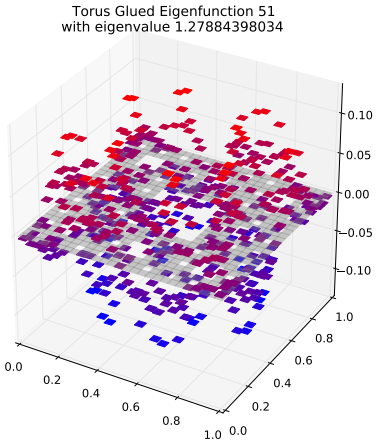
52 $M = 4$ Eigenfunction 51

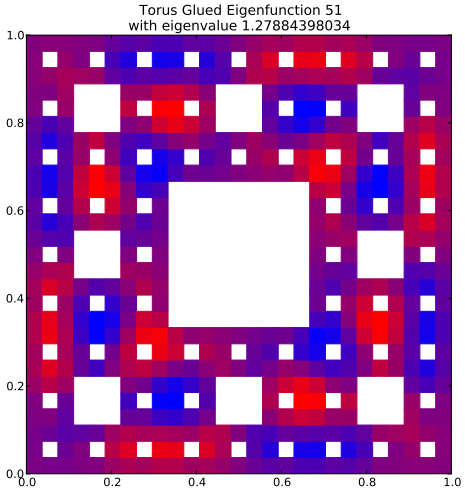
$M = 4$ Eigenfunction 51 has eigenvalue 0.209776434337





Compare to $m = 3$ eigenspace with eigenvalue 1.27884398034

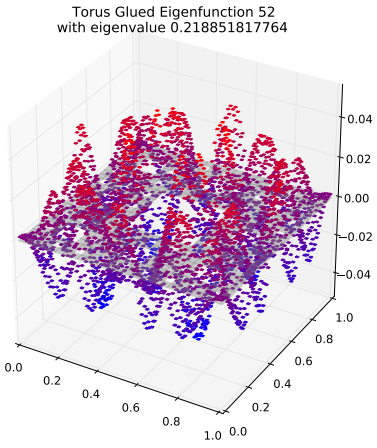


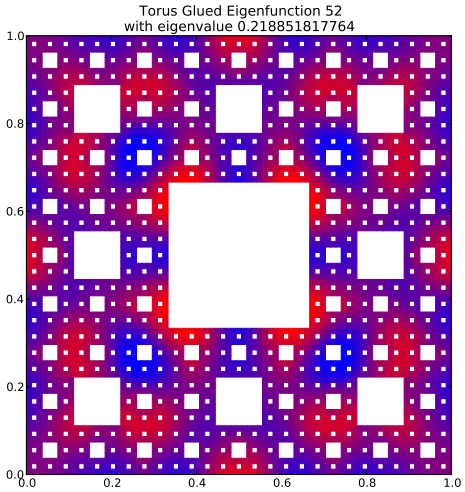


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.164035986846$
Dot Value: 0.002697655878176053

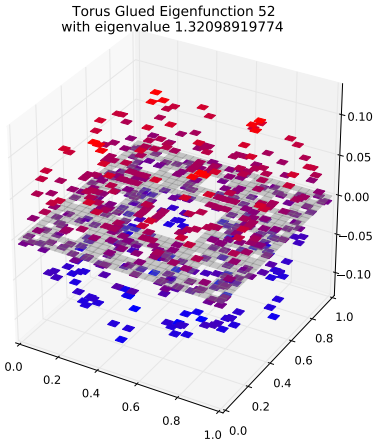
53 $M = 4$ Eigenfunction 52

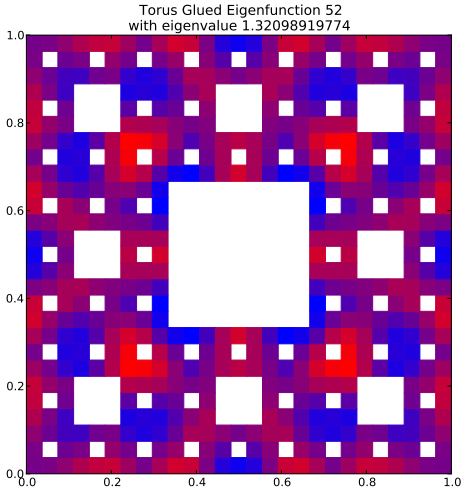
$M = 4$ Eigenfunction 52 has eigenvalue 0.218851817764





Compare to $m = 3$ eigenspace with eigenvalue 1.32098919774

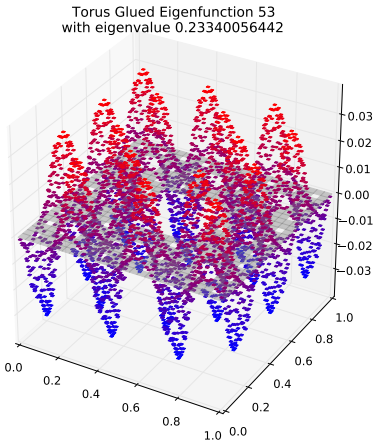


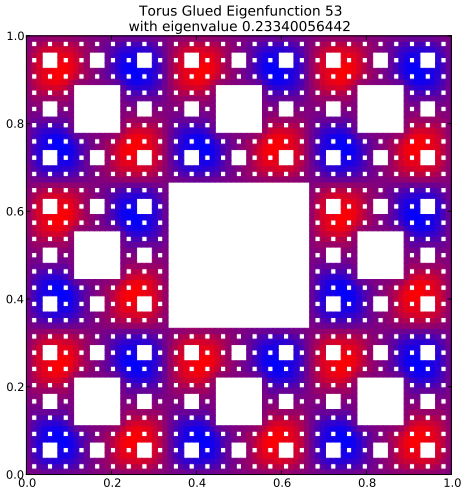


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.165672677823$
Dot Value: 0.009311251250720964

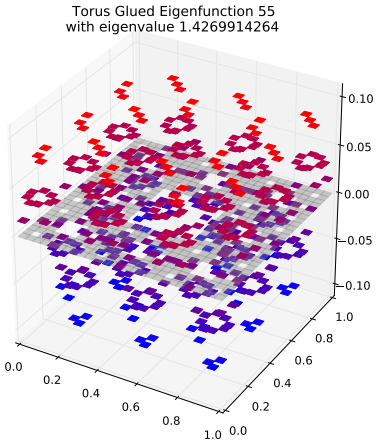
54 $M = 4$ Eigenfunction 53

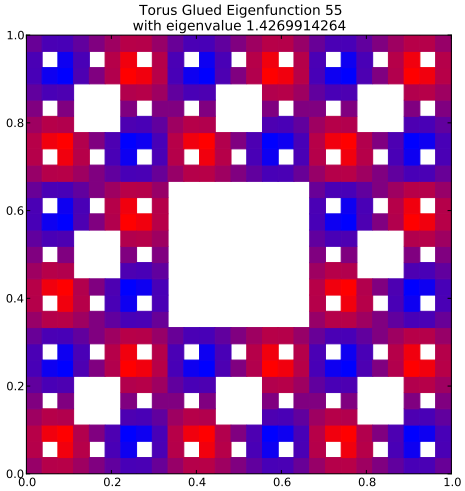
$M = 4$ Eigenfunction 53 has eigenvalue 0.23340056442





Compare to $m = 3$ eigenspace with eigenvalue 1.4269914264

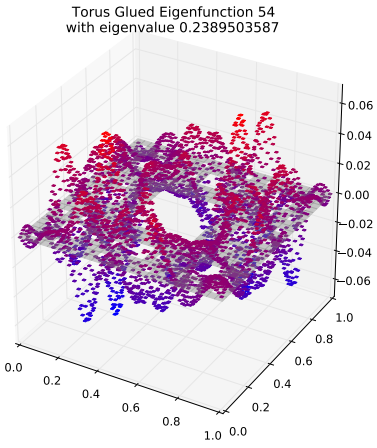


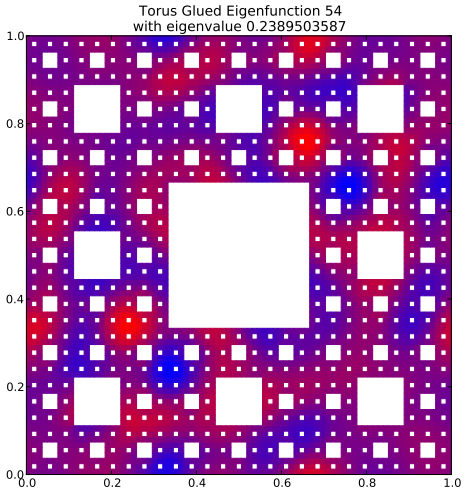


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.163561294133$
Dot Value: 0.0025413019411489 88

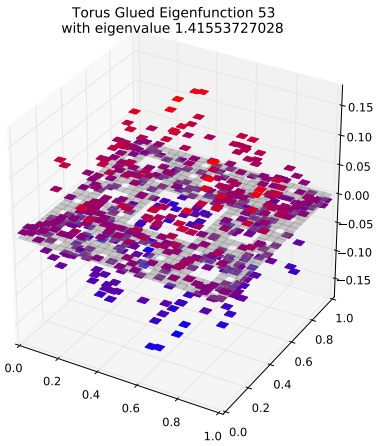
55 $M = 4$ Eigenfunction 54

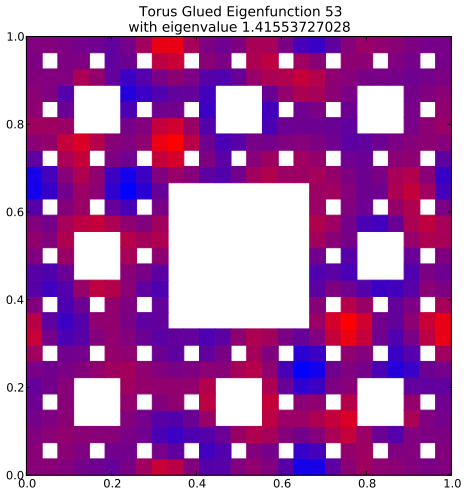
$M = 4$ Eigenfunction 54 has eigenvalue 0.2389503587





Compare to $m = 3$ eigenspace with eigenvalue 1.41553727028
(Note: Eigenspace Dimension > 1)

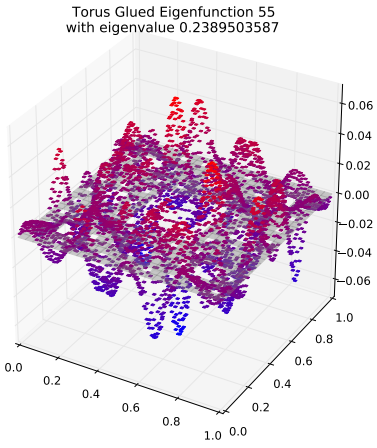


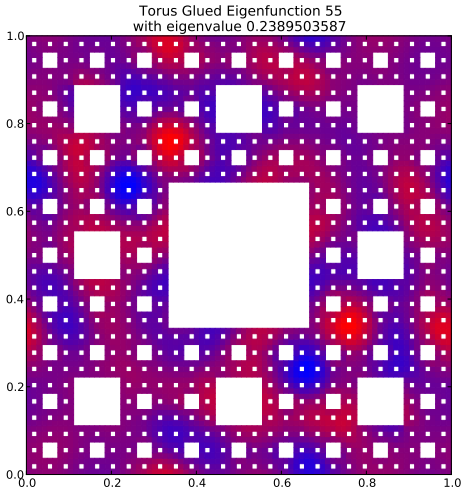


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.168805416654$
Dot Value: 0.018286641088907207

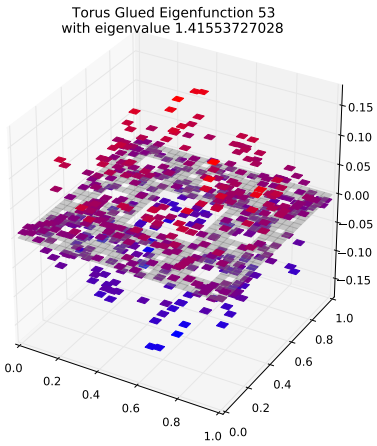
56 $M = 4$ Eigenfunction 55

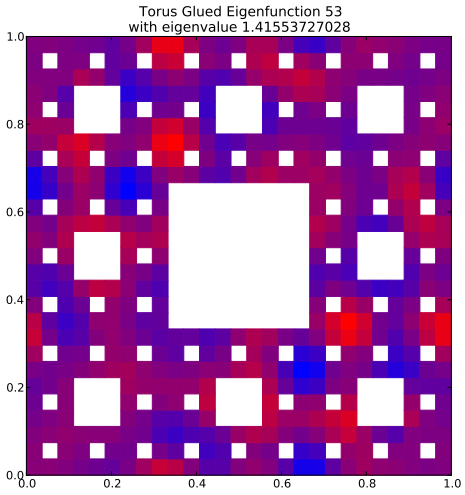
$M = 4$ Eigenfunction 55 has eigenvalue 0.2389503587





Compare to $m = 3$ eigenspace with eigenvalue 1.41553727028
(Note: Eigenspace Dimension > 1)

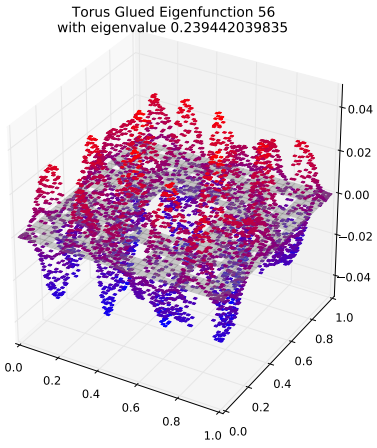


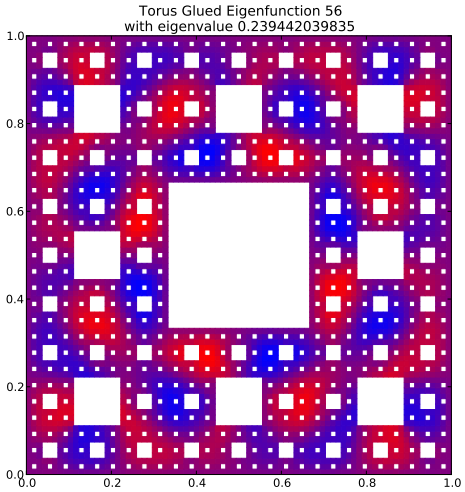


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.168805416654$
Dot Value: 0.018286641088903433

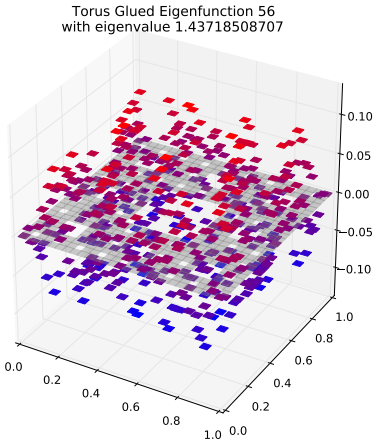
57 $M = 4$ Eigenfunction 56

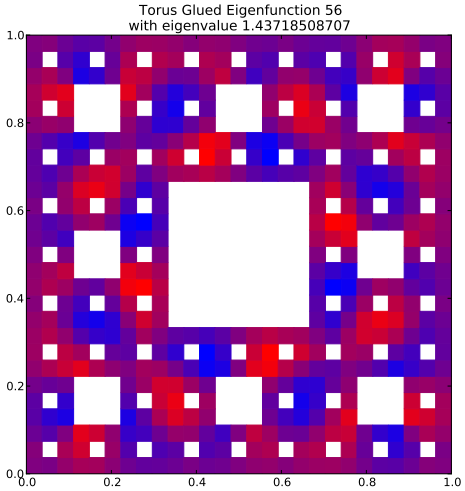
$M = 4$ Eigenfunction 56 has eigenvalue 0.239442039835





Compare to $m = 3$ eigenspace with eigenvalue 1.43718508707

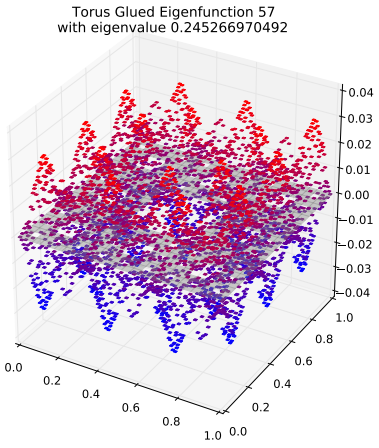


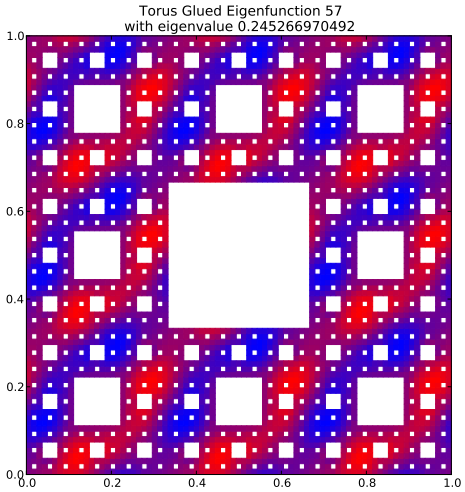


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.166604873645$
Dot Value: 0.010953775722159498

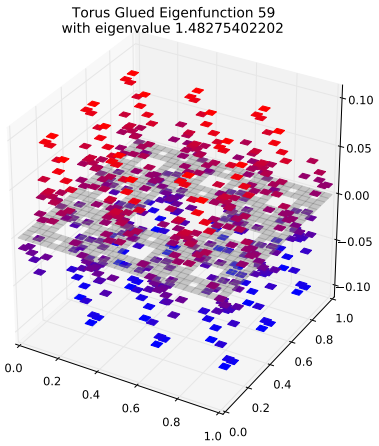
58 $M = 4$ Eigenfunction 57

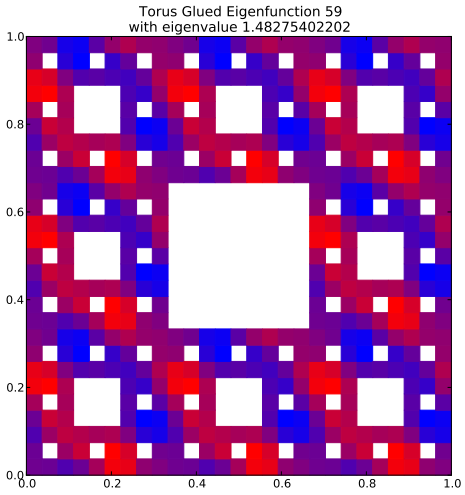
$M = 4$ Eigenfunction 57 has eigenvalue 0.245266970492





Compare to $m = 3$ eigenspace with eigenvalue 1.48275402202
(Note: Eigenspace Dimension > 1)

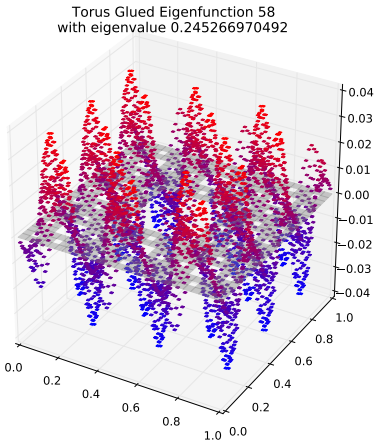


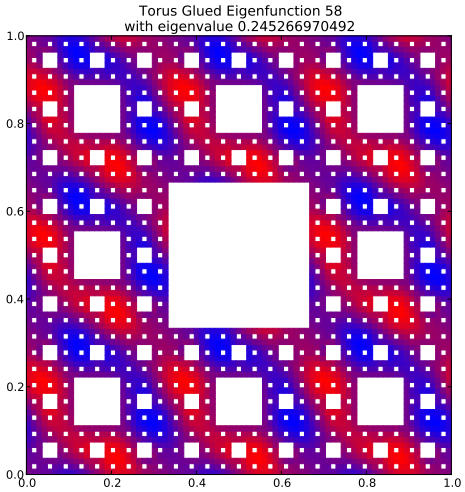


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.165413121023$
Dot Value: 0.004649913969036246

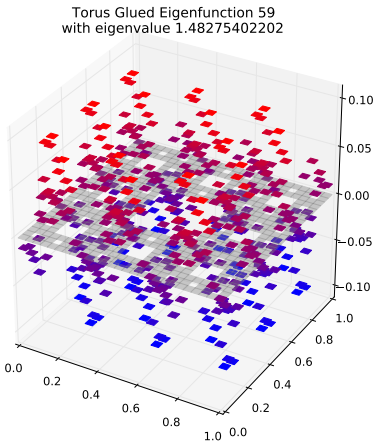
59 $M = 4$ Eigenfunction 58

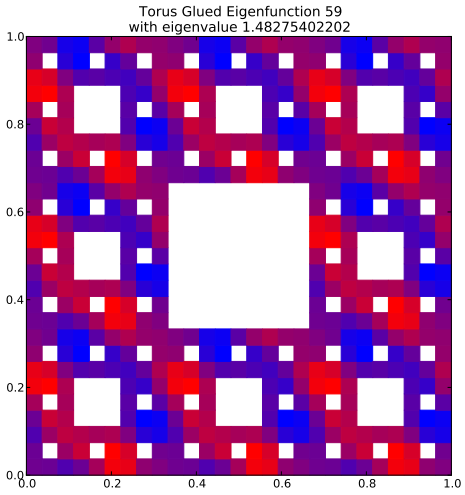
$M = 4$ Eigenfunction 58 has eigenvalue 0.245266970492





Compare to $m = 3$ eigenspace with eigenvalue 1.48275402202
(Note: Eigenspace Dimension > 1)

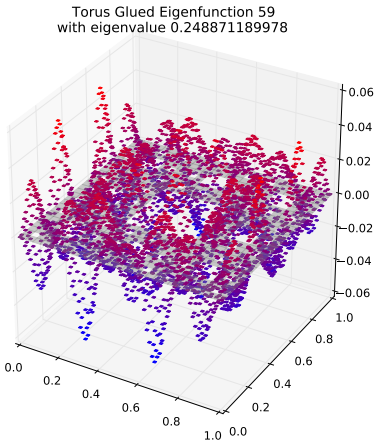


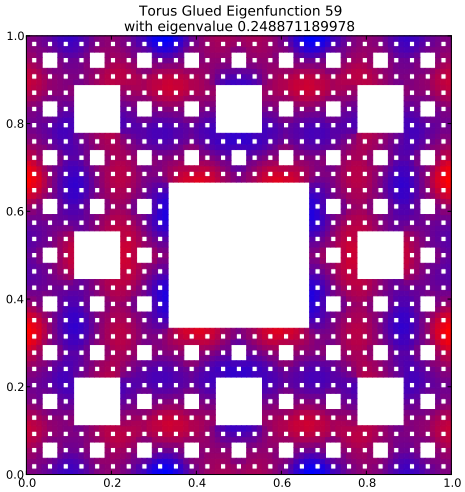


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.165413121023$
Dot Value: 0.0046499139690361 35

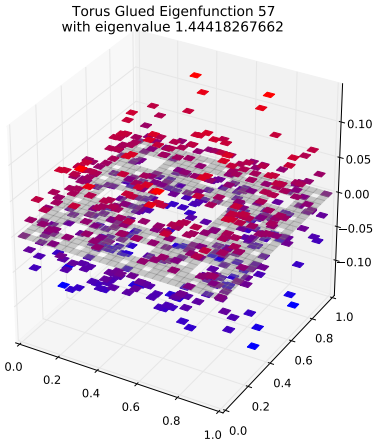
60 $M = 4$ Eigenfunction 59

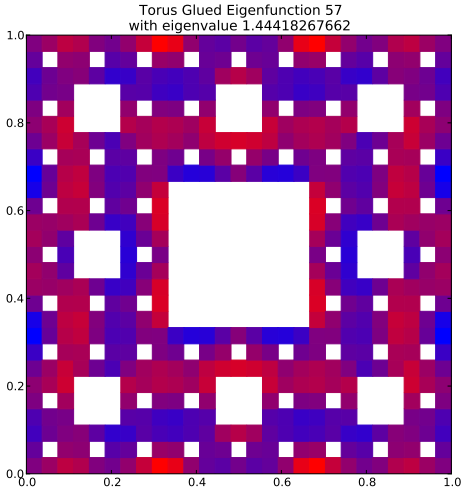
$M = 4$ Eigenfunction 59 has eigenvalue 0.248871189978





Compare to $m = 3$ eigenspace with eigenvalue 1.44418267662

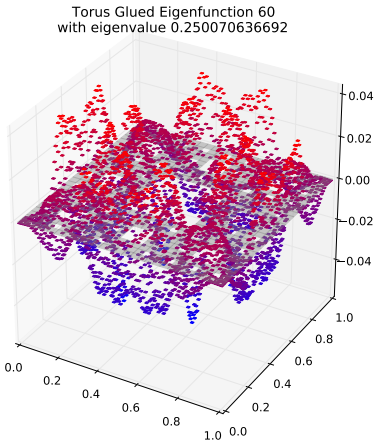


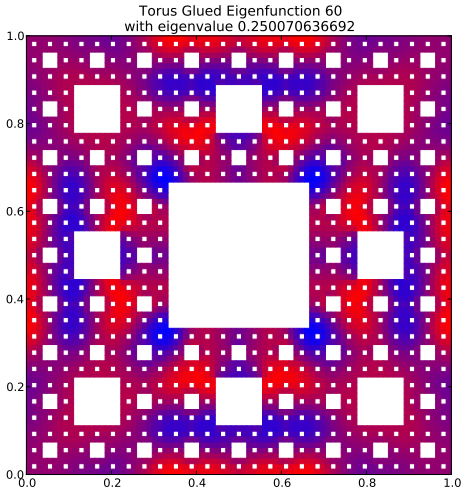


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.172326668923$
Dot Value: 0.0069941265652130324

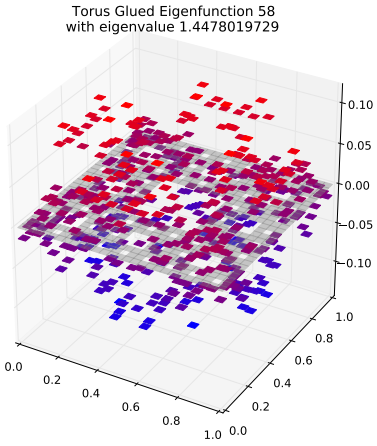
61 $M = 4$ Eigenfunction 60

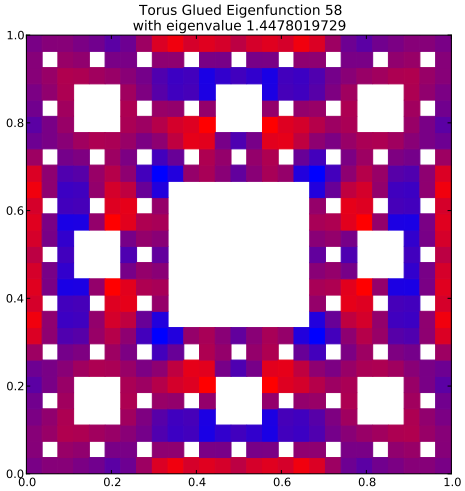
$M = 4$ Eigenfunction 60 has eigenvalue 0.250070636692





Compare to $m = 3$ eigenspace with eigenvalue 1.4478019729

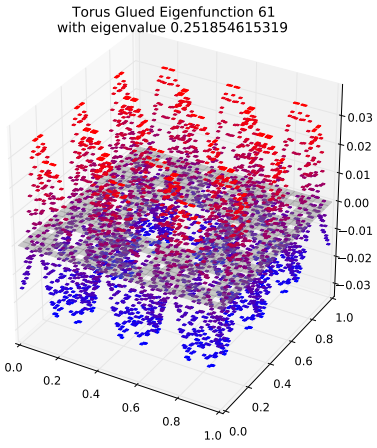


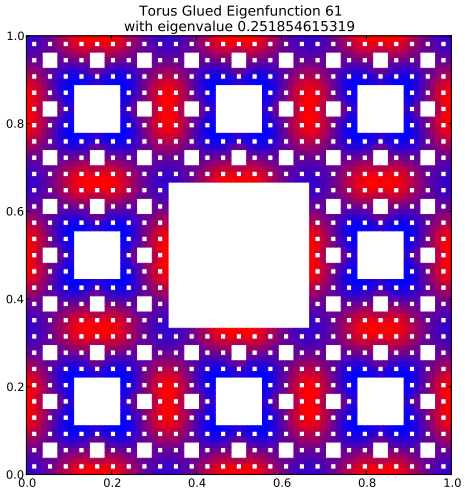


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.172724337563$
Dot Value: 0.006878145154251336

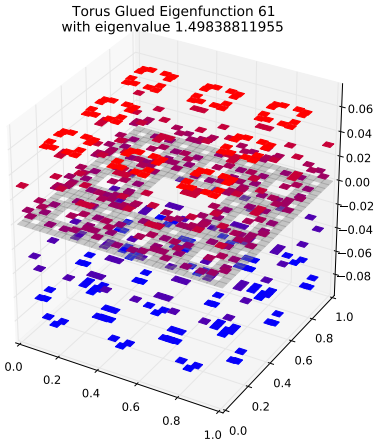
62 $M = 4$ Eigenfunction 61

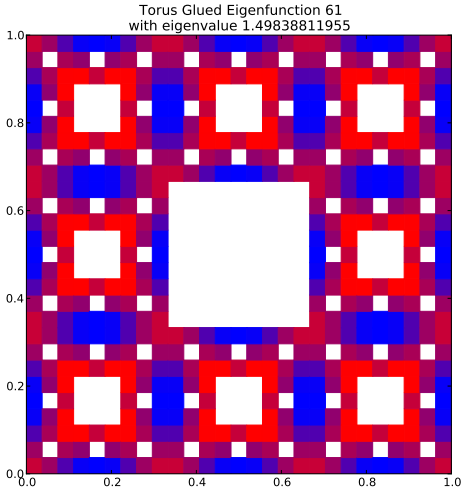
$M = 4$ Eigenfunction 61 has eigenvalue 0.251854615319





Compare to $m = 3$ eigenspace with eigenvalue 1.49838811955

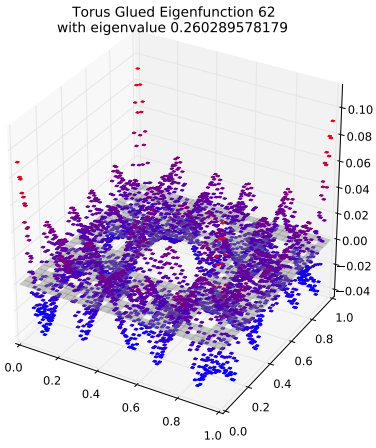


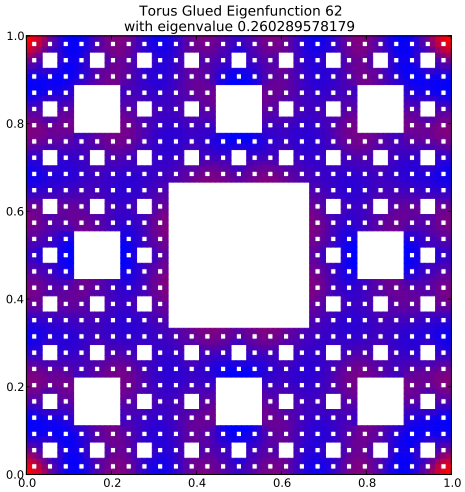


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.16808369743$
Dot Value: 0.0028042394659021364

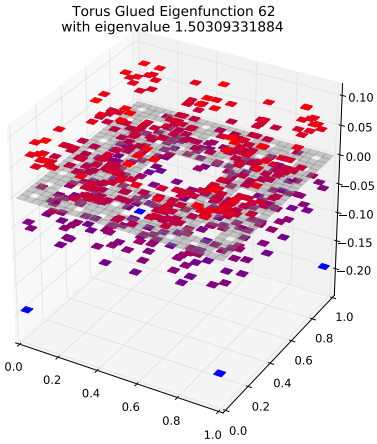
63 $M = 4$ Eigenfunction 62

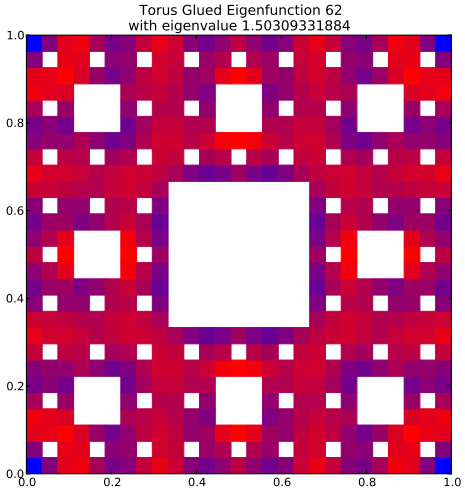
$M = 4$ Eigenfunction 62 has eigenvalue 0.260289578179





Compare to $m = 3$ eigenspace with eigenvalue 1.50309331884

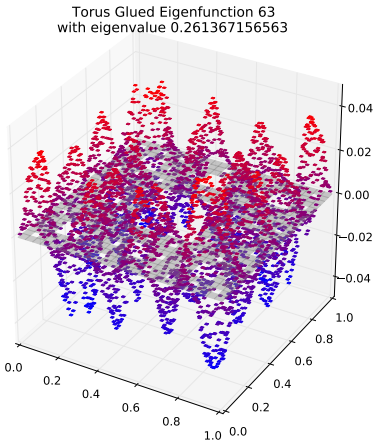


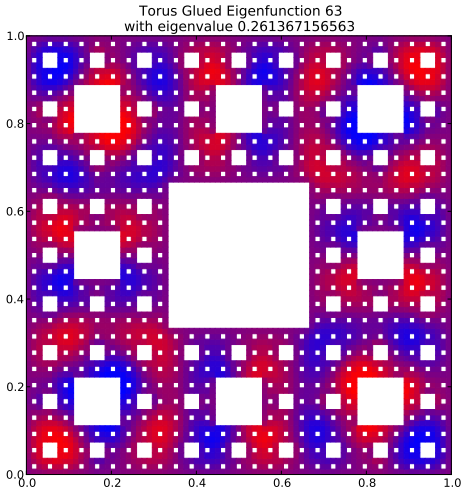


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.173169273602$
Dot Value: 0.008877961471446372

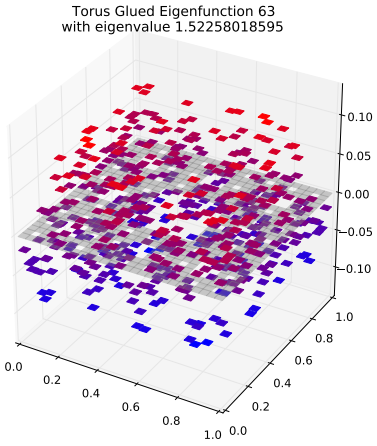
64 $M = 4$ Eigenfunction 63

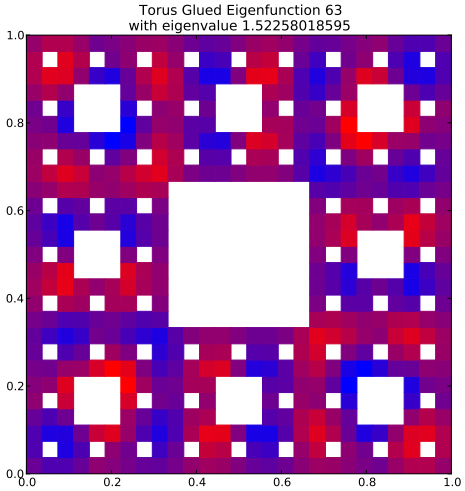
$M = 4$ Eigenfunction 63 has eigenvalue 0.261367156563





Compare to $m = 3$ eigenspace with eigenvalue 1.52258018595

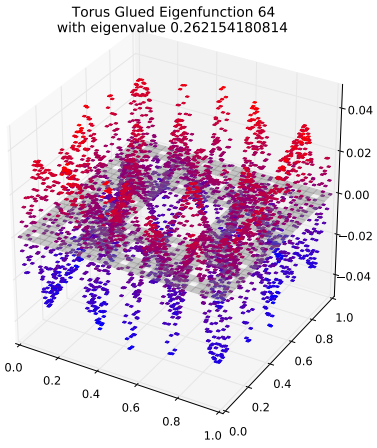


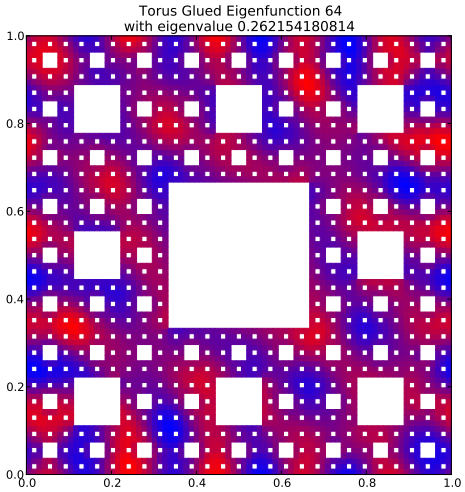


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.171660684262$
Dot Value: 0.008672777635105766

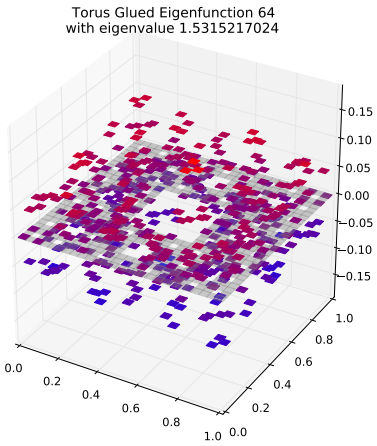
65 $M = 4$ Eigenfunction 64

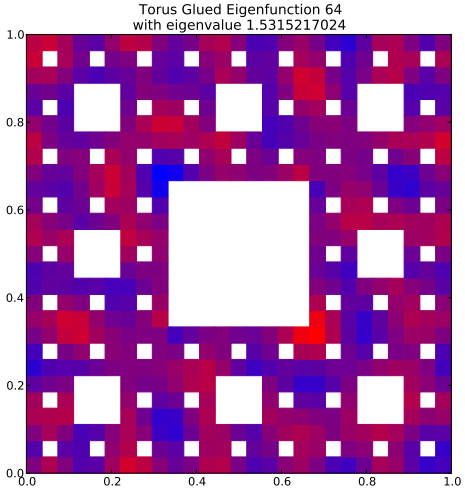
$M = 4$ Eigenfunction 64 has eigenvalue 0.262154180814





Compare to $m = 3$ eigenspace with eigenvalue 1.5315217024
(Note: Eigenspace Dimension > 1)

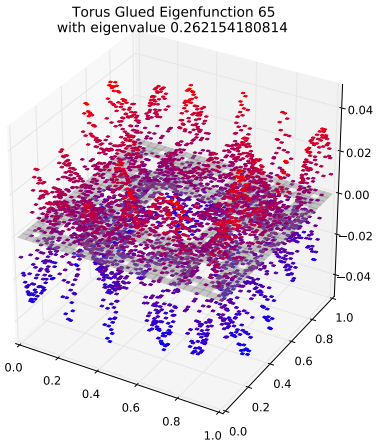


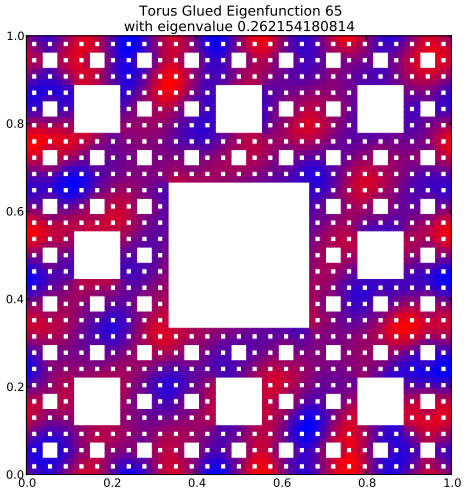


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.171172357795$
Dot Value: 0.08380680319549105

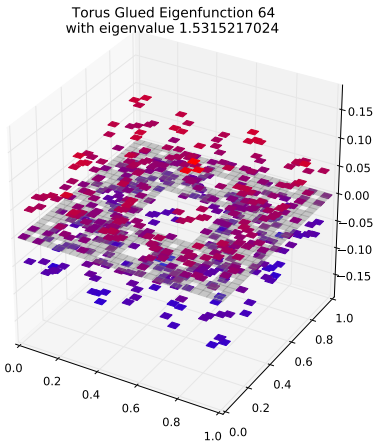
66 $M = 4$ Eigenfunction 65

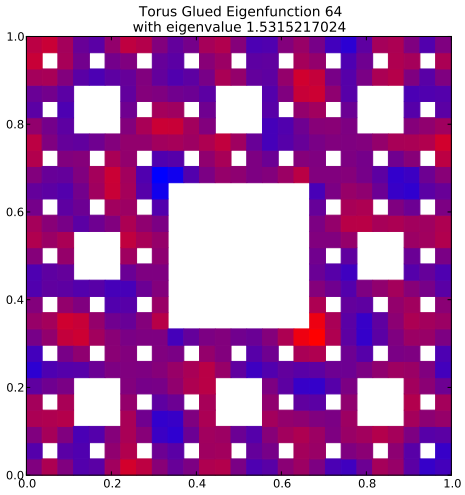
$M = 4$ Eigenfunction 65 has eigenvalue 0.262154180814





Compare to $m = 3$ eigenspace with eigenvalue 1.5315217024
(Note: Eigenspace Dimension > 1)

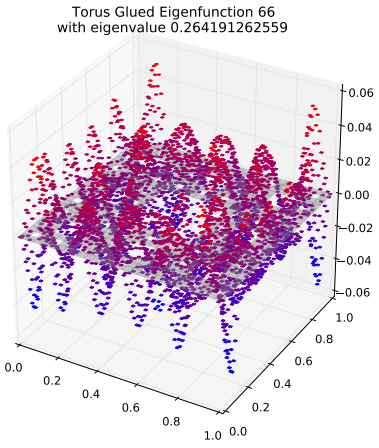


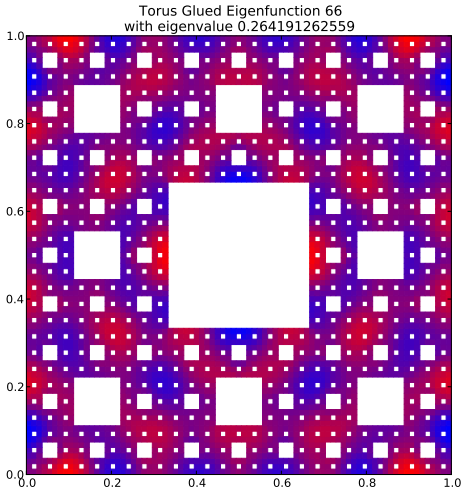


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.171172357795$
Dot Value: 0.08380680319548384

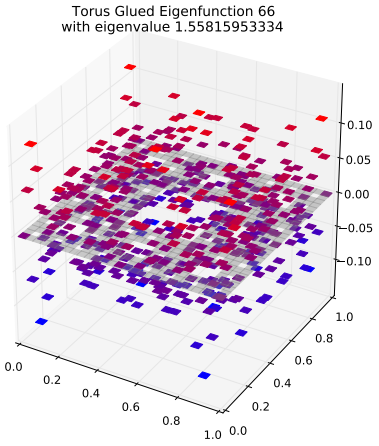
67 $M = 4$ Eigenfunction 66

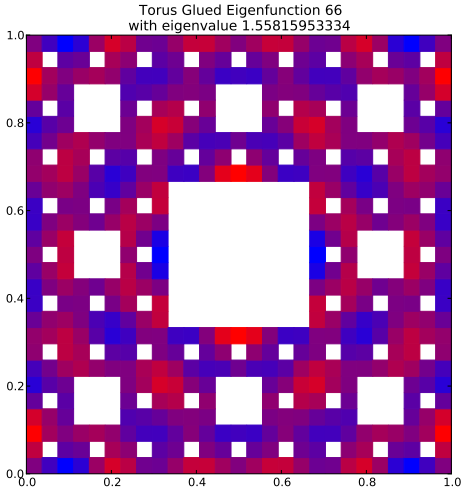
$M = 4$ Eigenfunction 66 has eigenvalue 0.264191262559





Compare to $m = 3$ eigenspace with eigenvalue 1.55815953334

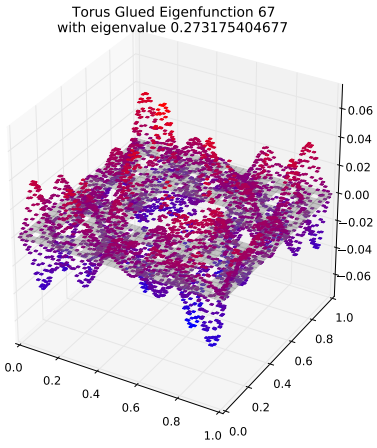


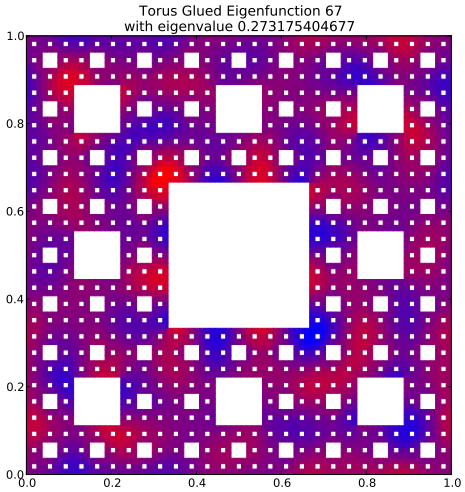


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.169553410229$
Dot Value: 0.006837101652793498

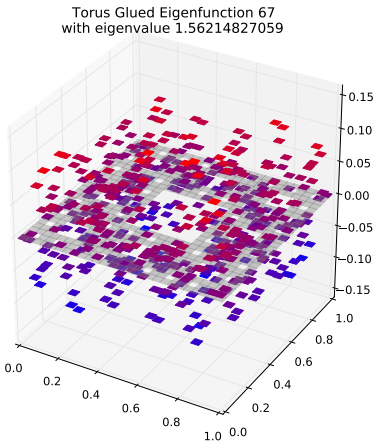
68 $M = 4$ Eigenfunction 67

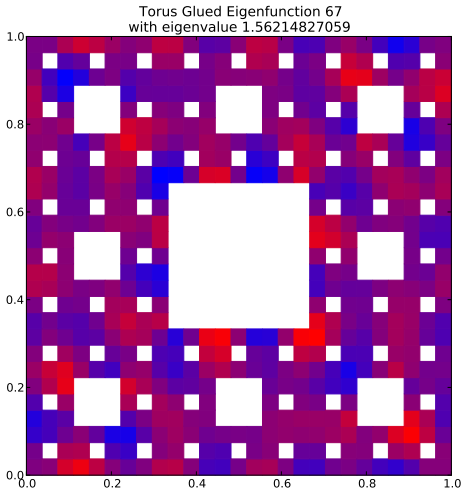
$M = 4$ Eigenfunction 67 has eigenvalue 0.273175404677





Compare to $m = 3$ eigenspace with eigenvalue 1.56214827059
(Note: Eigenspace Dimension > 1)

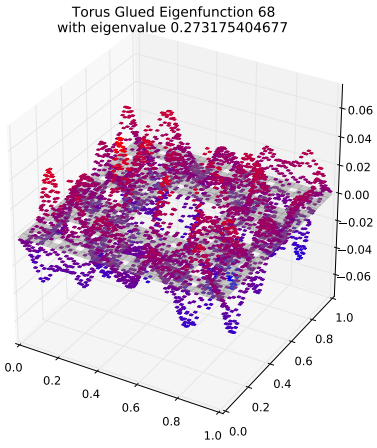


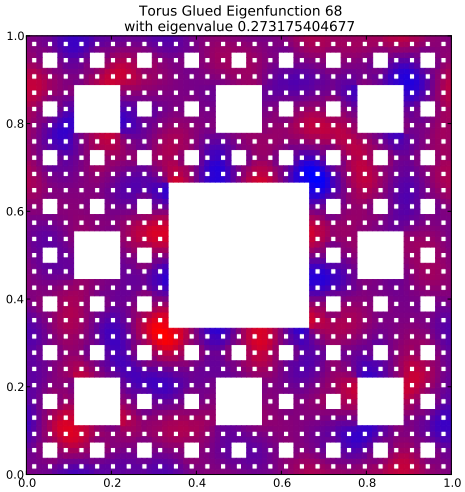


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.174871623789$
Dot Value: 0.07953633488916056

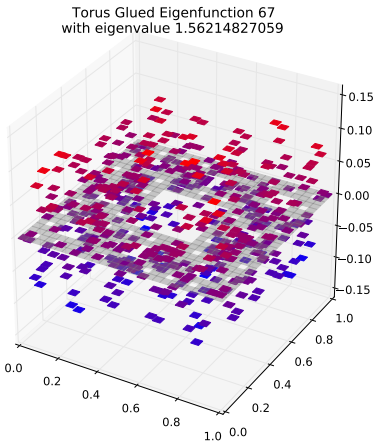
69 $M = 4$ Eigenfunction 68

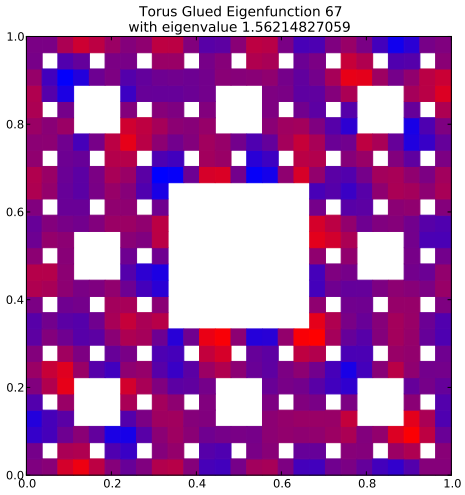
$M = 4$ Eigenfunction 68 has eigenvalue 0.273175404677





Compare to $m = 3$ eigenspace with eigenvalue 1.56214827059
(Note: Eigenspace Dimension > 1)

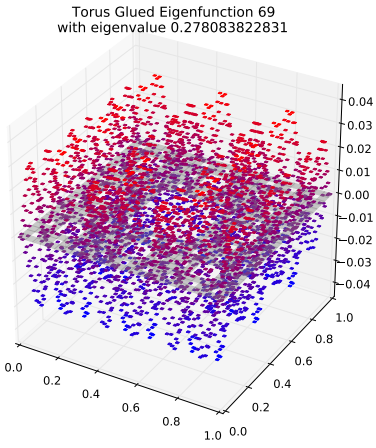


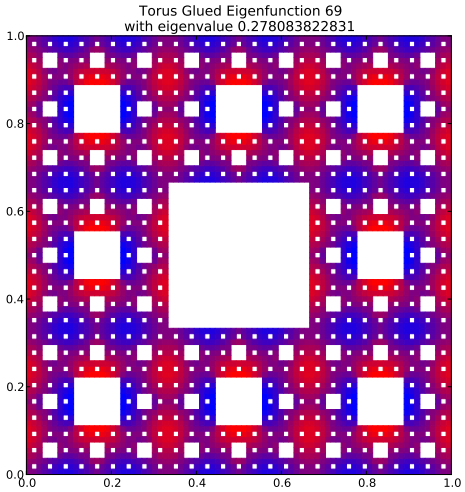


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.174871623789$
Dot Value: 0.07953633488916068

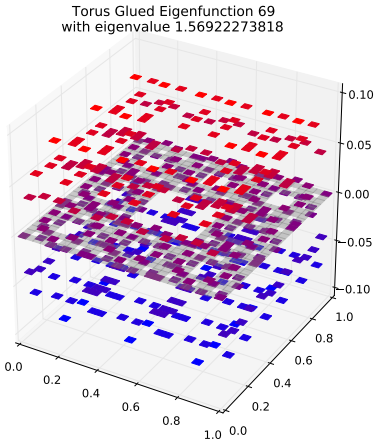
70 $M = 4$ Eigenfunction 69

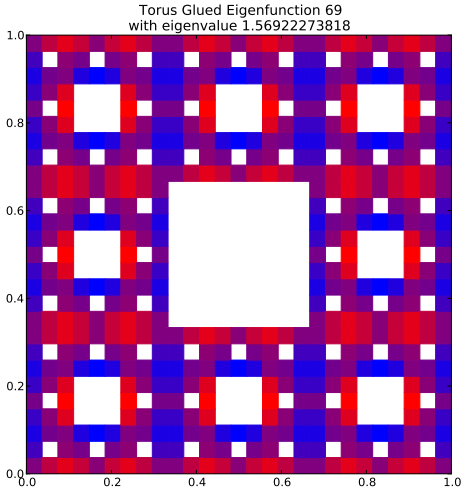
$M = 4$ Eigenfunction 69 has eigenvalue 0.278083822831





Compare to $m = 3$ eigenspace with eigenvalue 1.56922273818

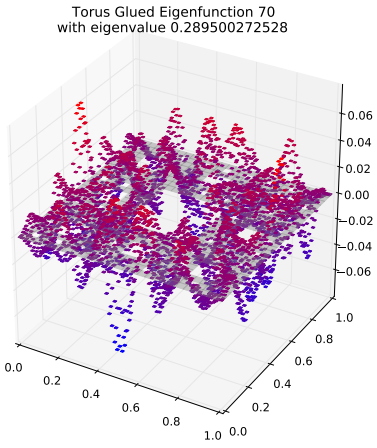


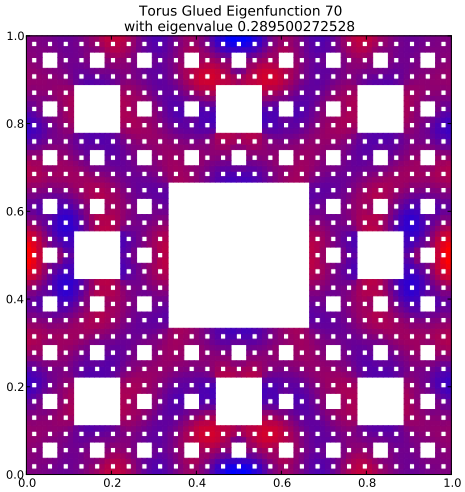


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.177211186191$
Dot Value: 0.0008895272340455618

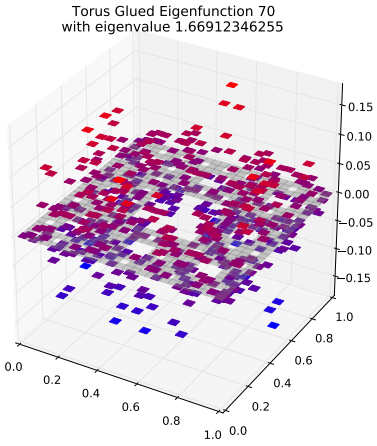
71 $M = 4$ Eigenfunction 70

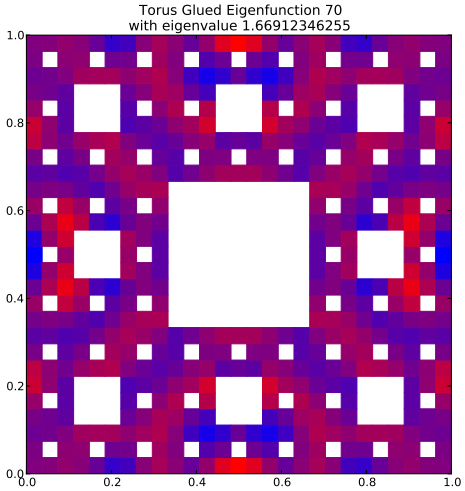
$M = 4$ Eigenfunction 70 has eigenvalue 0.289500272528





Compare to $m = 3$ eigenspace with eigenvalue 1.66912346255

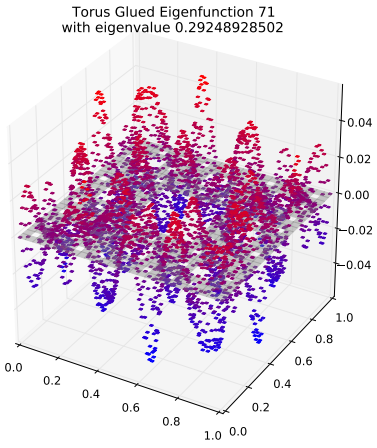


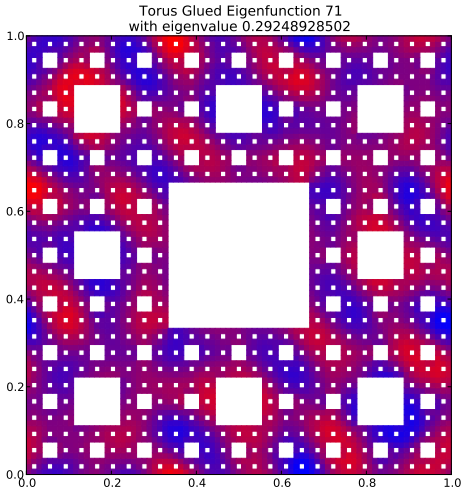


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.173444492888$
Dot Value: 0.03378260200849825

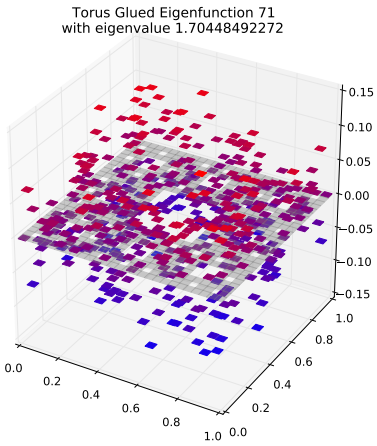
72 $M = 4$ Eigenfunction 71

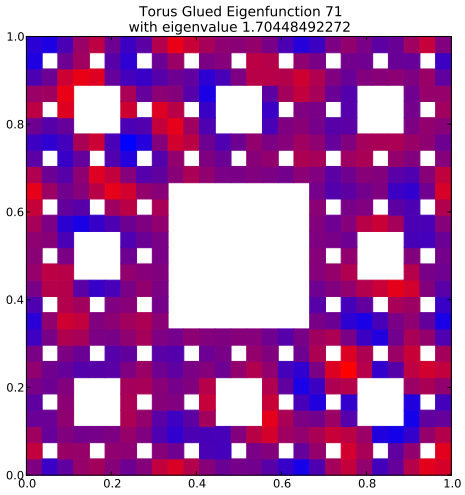
$M = 4$ Eigenfunction 71 has eigenvalue 0.29248928502





Compare to $m = 3$ eigenspace with eigenvalue 1.70448492272
(Note: Eigenspace Dimension > 1)

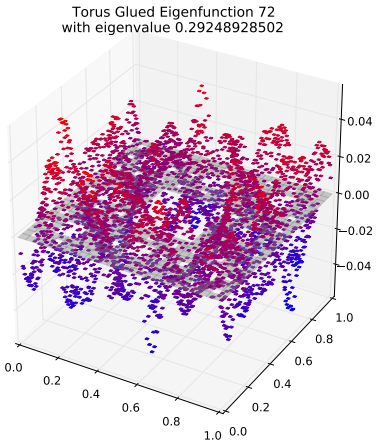


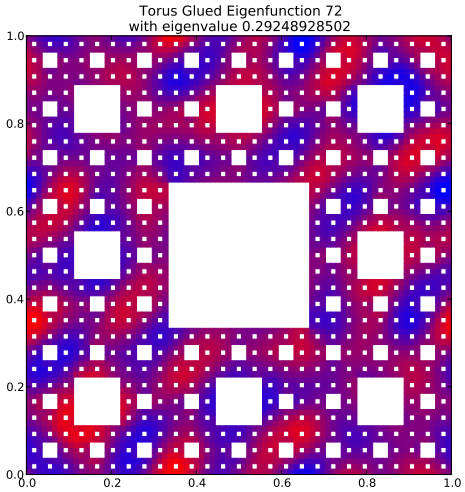


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.171599807732$
Dot Value: 0.23791185134787707

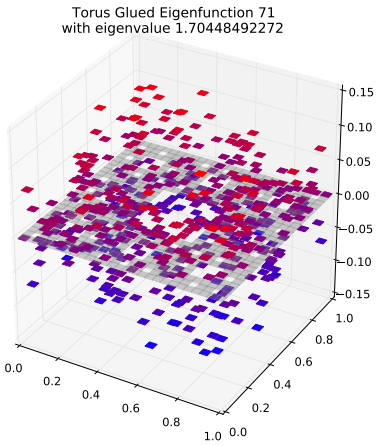
73 $M = 4$ Eigenfunction 72

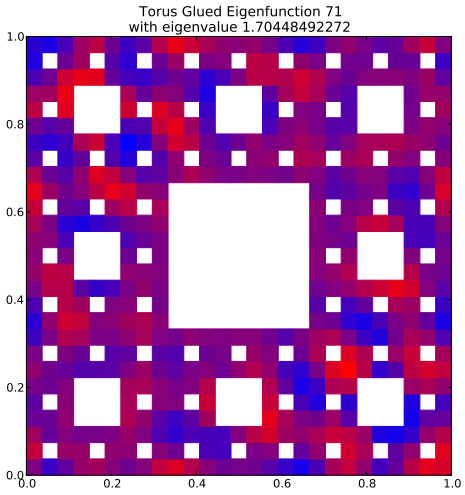
$M = 4$ Eigenfunction 72 has eigenvalue 0.29248928502





Compare to $m = 3$ eigenspace with eigenvalue 1.70448492272
(Note: Eigenspace Dimension > 1)

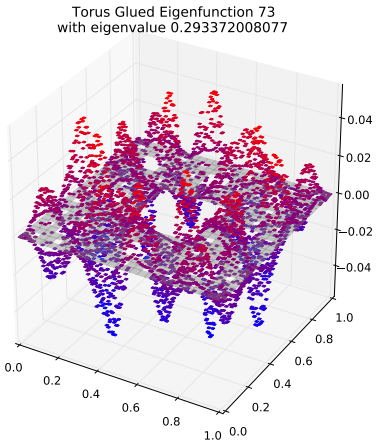


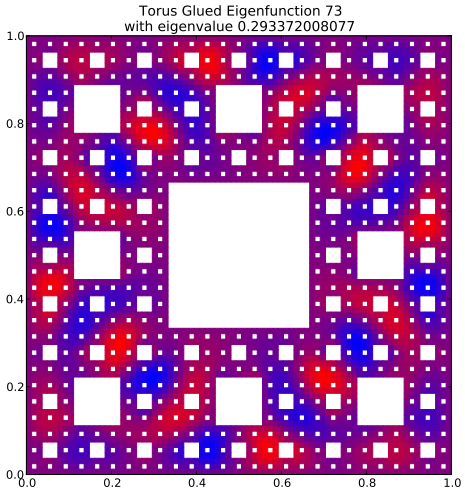


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.171599807732$
Dot Value: 0.2379118513478925

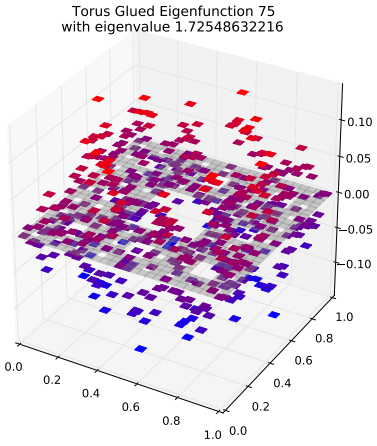
74 $M = 4$ Eigenfunction 73

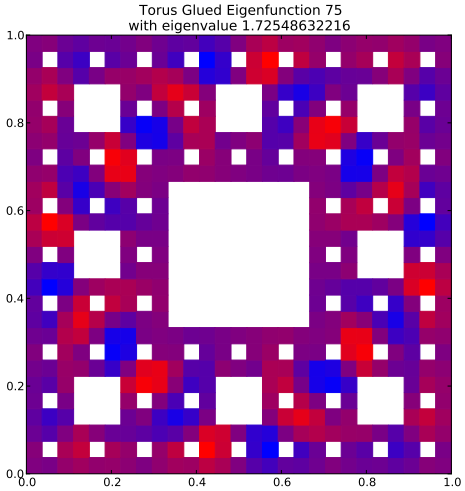
$M = 4$ Eigenfunction 73 has eigenvalue 0.293372008077





Compare to $m = 3$ eigenspace with eigenvalue 1.72548632216

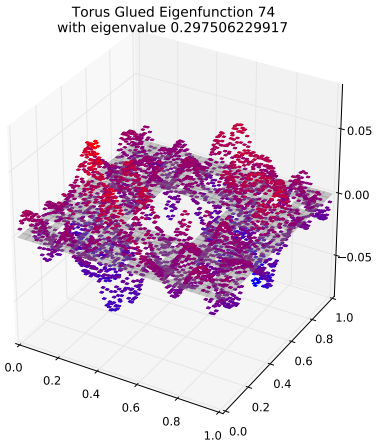


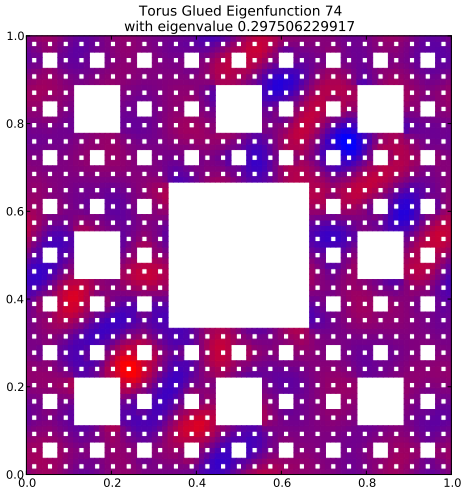


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.170022795492$
Dot Value: 0.00917838779639335

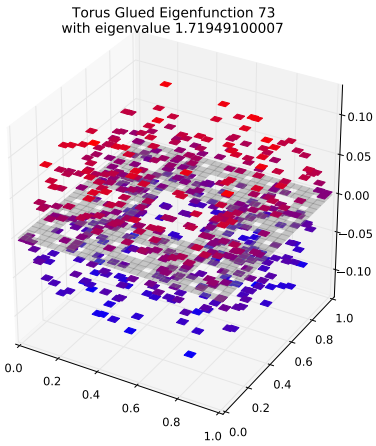
75 $M = 4$ Eigenfunction 74

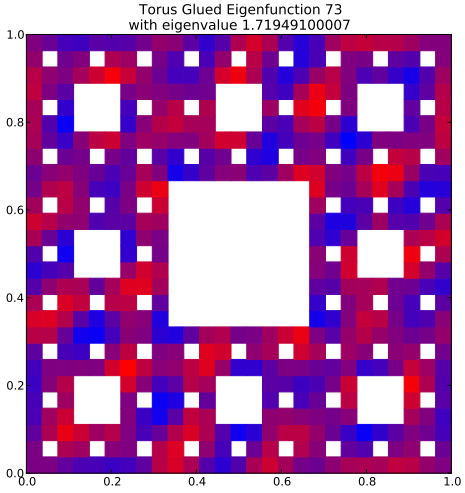
$M = 4$ Eigenfunction 74 has eigenvalue 0.297506229917





Compare to $m = 3$ eigenspace with eigenvalue 1.71949100007
(Note: Eigenspace Dimension > 1)

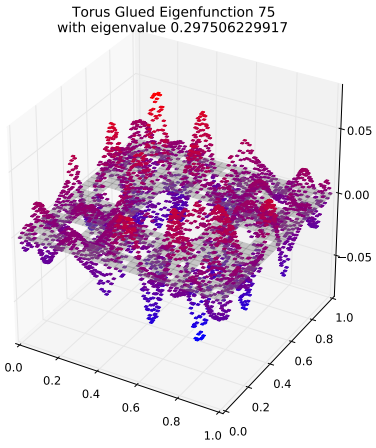


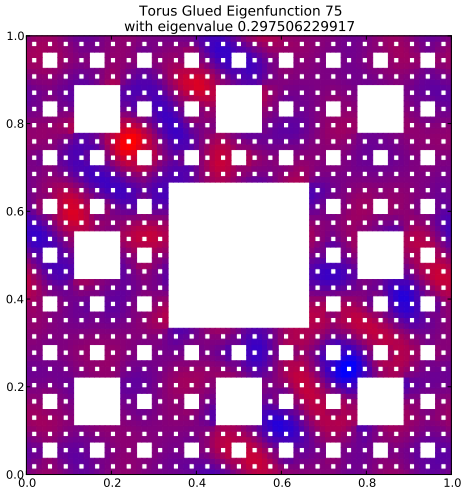


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.173019940148$
Dot Value: 0.40087366870868213

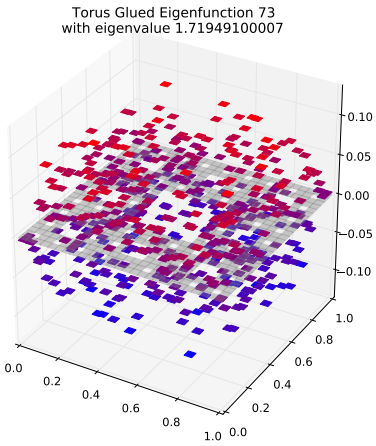
76 $M = 4$ Eigenfunction 75

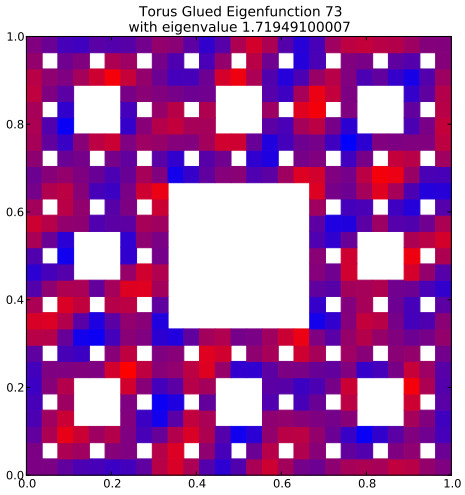
$M = 4$ Eigenfunction 75 has eigenvalue 0.297506229917





Compare to $m = 3$ eigenspace with eigenvalue 1.71949100007
(Note: Eigenspace Dimension > 1)

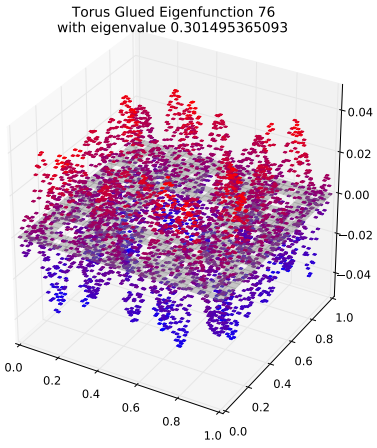


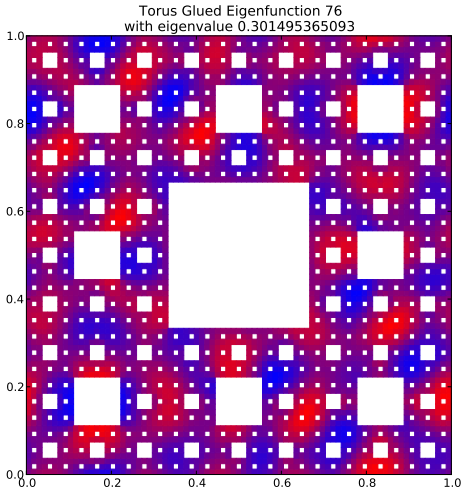


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.173019940148$
Dot Value: 0.40087366870855357

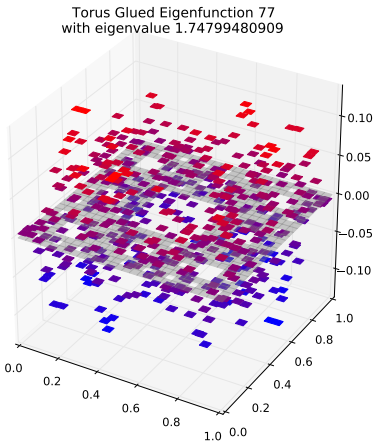
77 $M = 4$ Eigenfunction 76

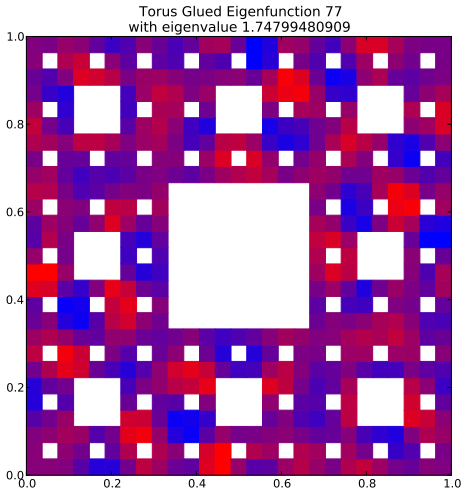
$M = 4$ Eigenfunction 76 has eigenvalue 0.301495365093





Compare to $m = 3$ eigenspace with eigenvalue 1.74799480909
(Note: Eigenspace Dimension > 1)

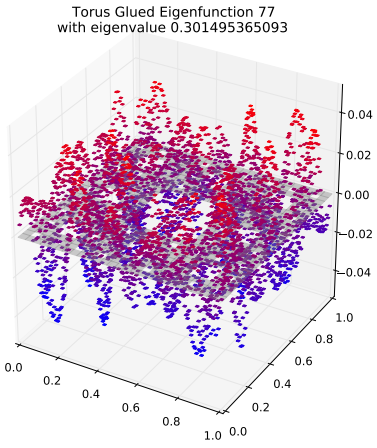


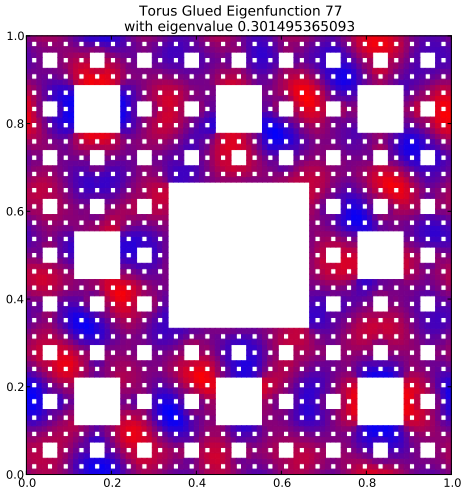


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.172480698183$
Dot Value: 0.1755794228131794

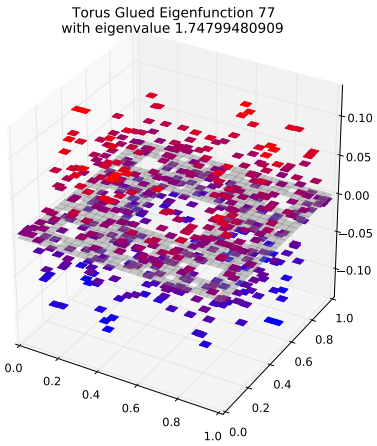
78 $M = 4$ Eigenfunction 77

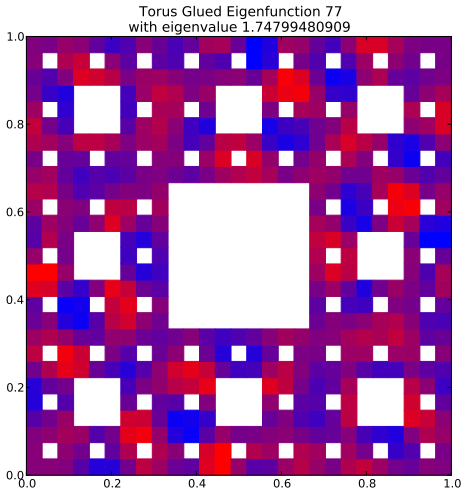
$M = 4$ Eigenfunction 77 has eigenvalue 0.301495365093





Compare to $m = 3$ eigenspace with eigenvalue 1.74799480909
(Note: Eigenspace Dimension > 1)

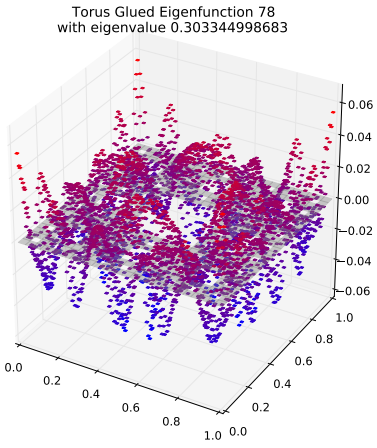


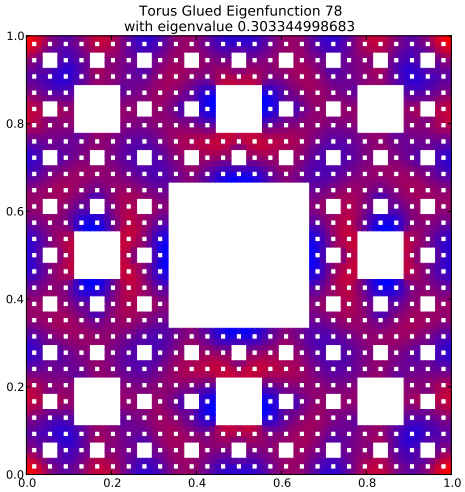


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.172480698183$
Dot Value: 0.17557942281317818

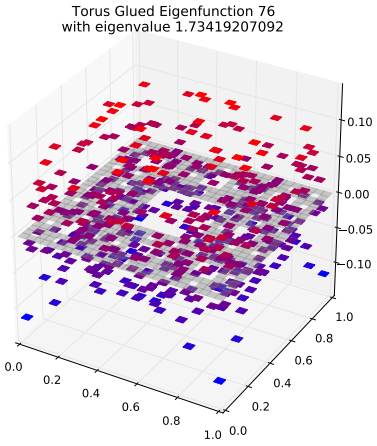
79 $M = 4$ Eigenfunction 78

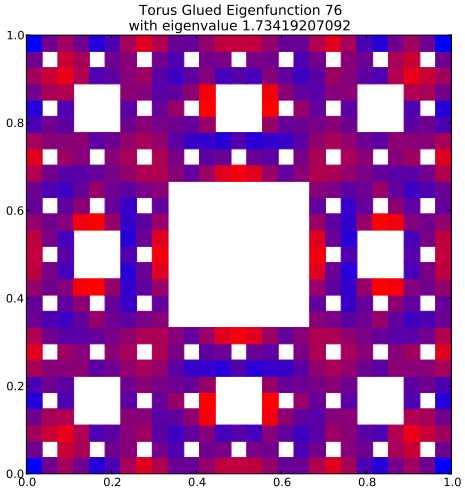
$M = 4$ Eigenfunction 78 has eigenvalue 0.303344998683





Compare to $m = 3$ eigenspace with eigenvalue 1.73419207092

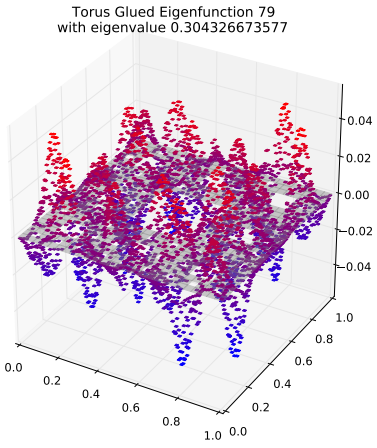


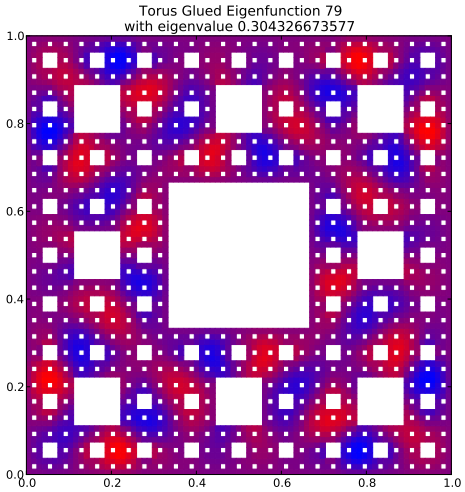


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.174920070141$
Dot Value: 0.014606885812900705

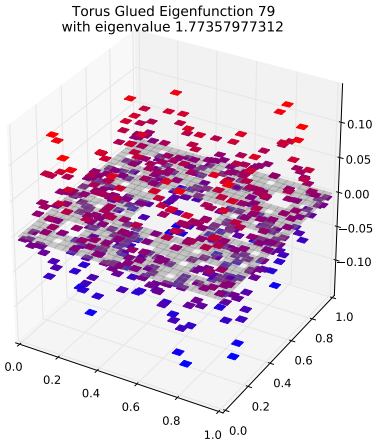
80 $M = 4$ Eigenfunction 79

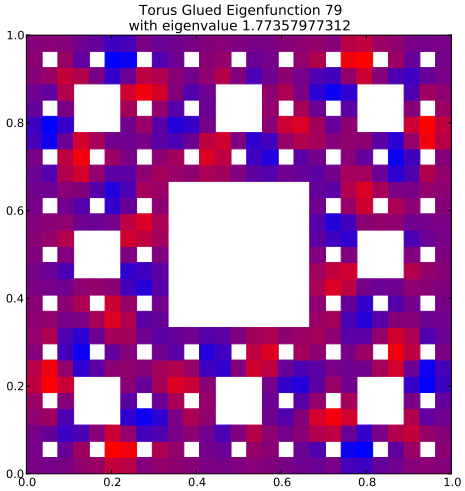
$M = 4$ Eigenfunction 79 has eigenvalue 0.304326673577





Compare to $m = 3$ eigenspace with eigenvalue 1.77357977312

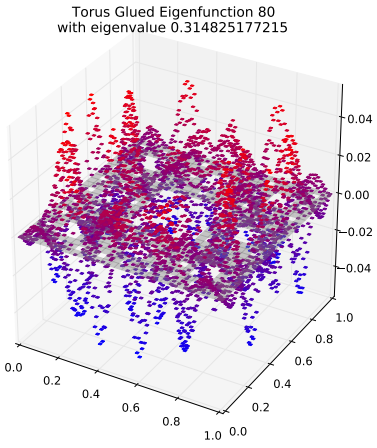


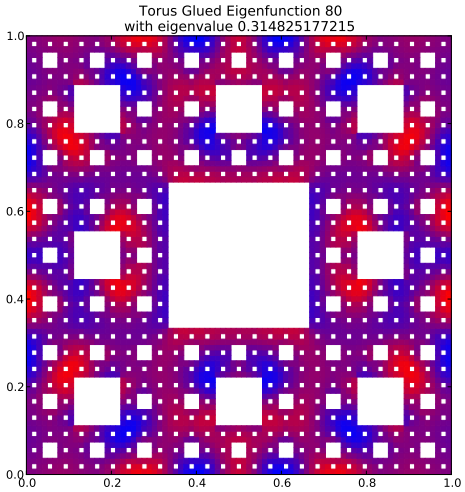


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.17158894017$
Dot Value: 0.018421554455785194

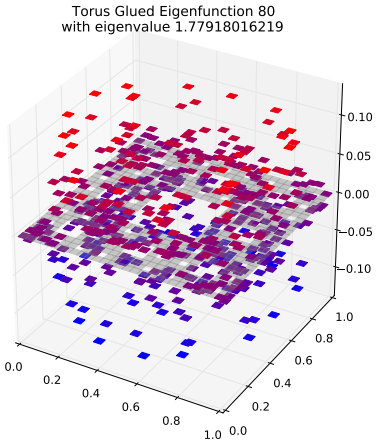
81 $M = 4$ Eigenfunction 80

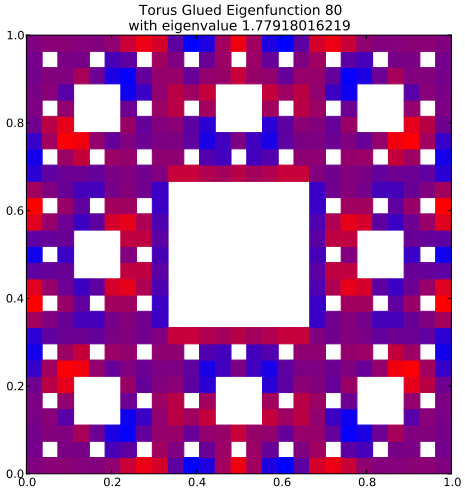
$M = 4$ Eigenfunction 80 has eigenvalue 0.314825177215





Compare to $m = 3$ eigenspace with eigenvalue 1.77918016219

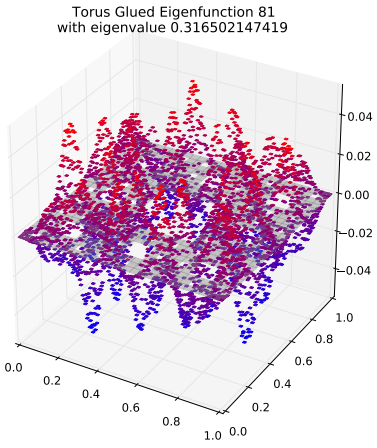


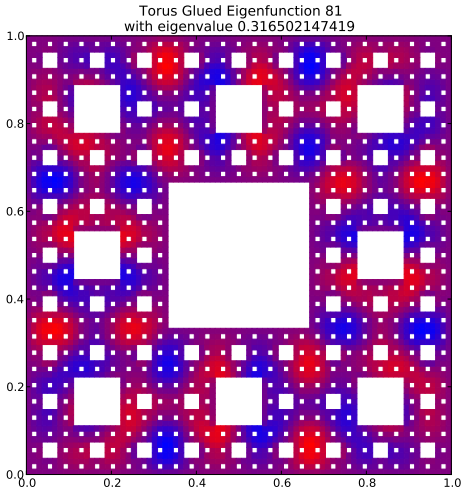


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.176949577061$
Dot Value: 0.03398798341484888

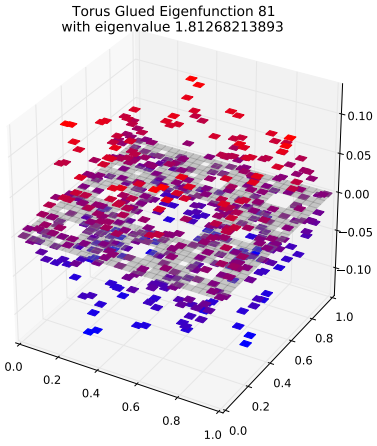
82 $M = 4$ Eigenfunction 81

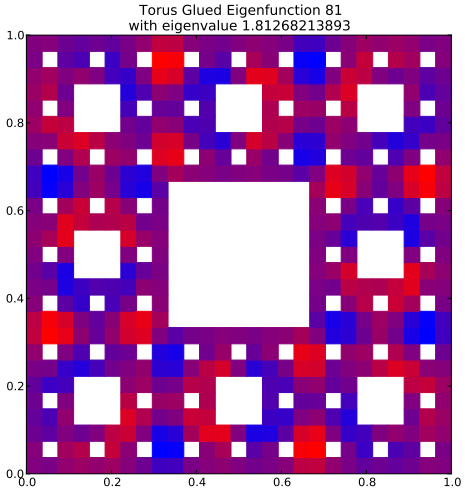
$M = 4$ Eigenfunction 81 has eigenvalue 0.316502147419





Compare to $m = 3$ eigenspace with eigenvalue 1.81268213893

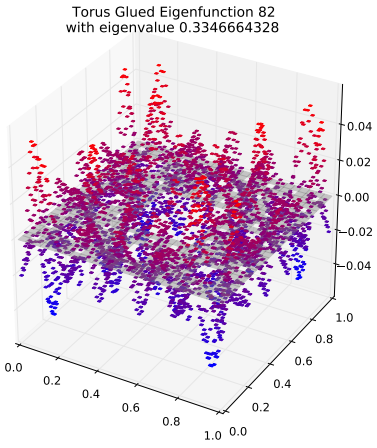


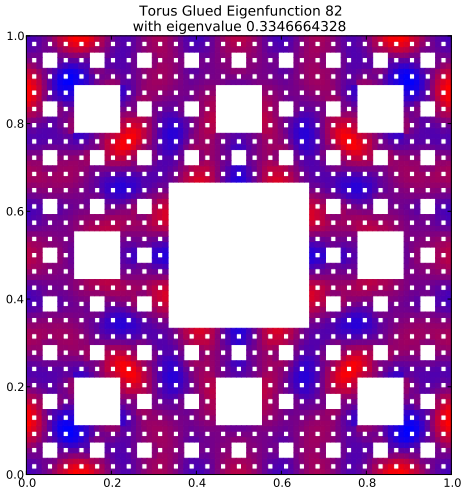


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.174604328372$
Dot Value: 0.023993629030108155

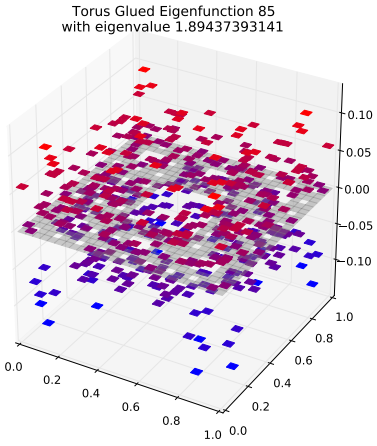
83 $M = 4$ Eigenfunction 82

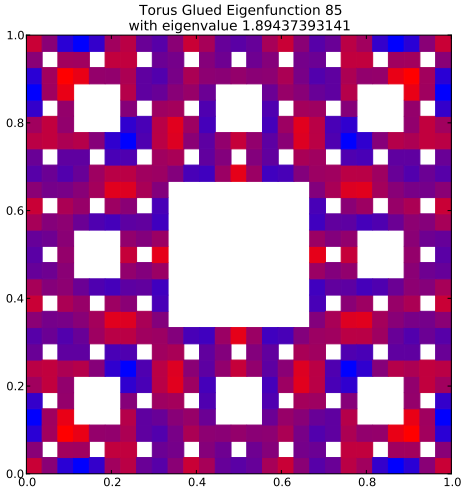
$M = 4$ Eigenfunction 82 has eigenvalue 0.3346664328





Compare to $m = 3$ eigenspace with eigenvalue 1.89437393141

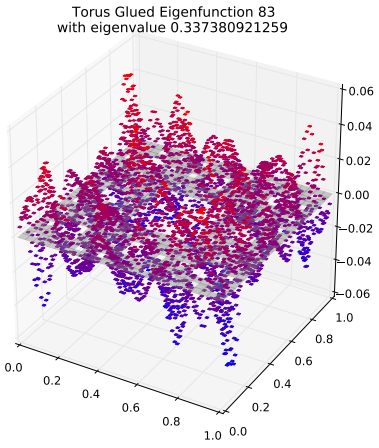


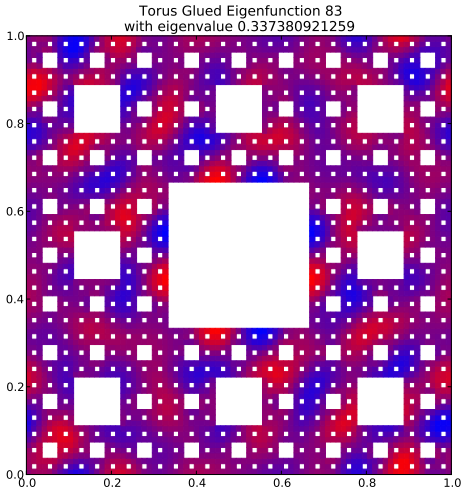


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.176663343625$
Dot Value: 0.018011892374030 67

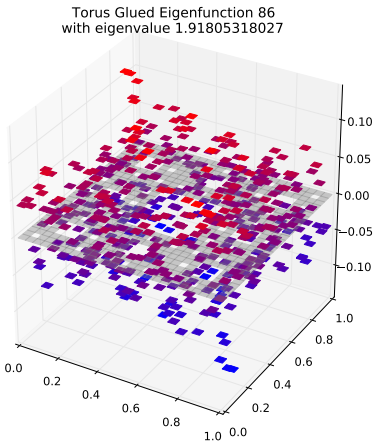
84 $M = 4$ Eigenfunction 83

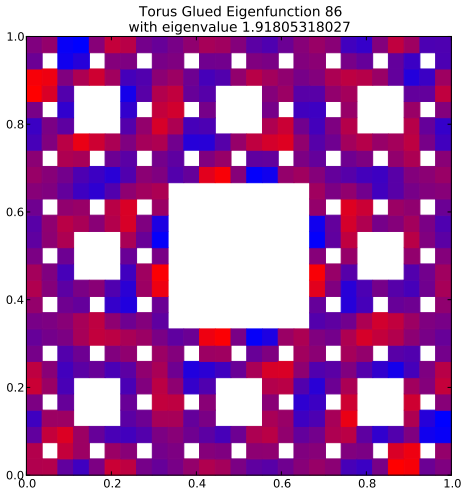
$M = 4$ Eigenfunction 83 has eigenvalue 0.337380921259





Compare to $m = 3$ eigenspace with eigenvalue 1.91805318027
(Note: Eigenspace Dimension > 1)

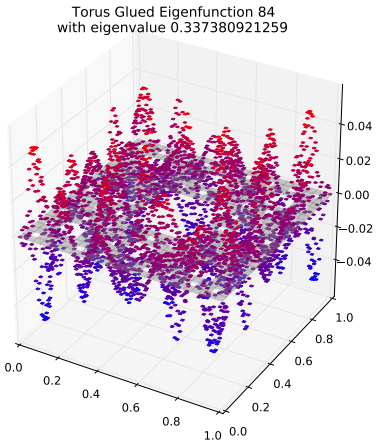


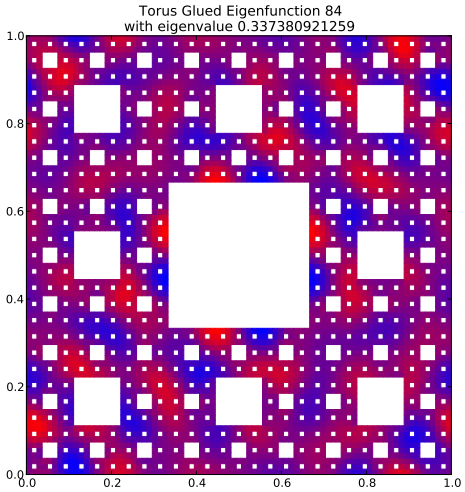


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.175897584452$
Dot Value: 0.0408677687523159

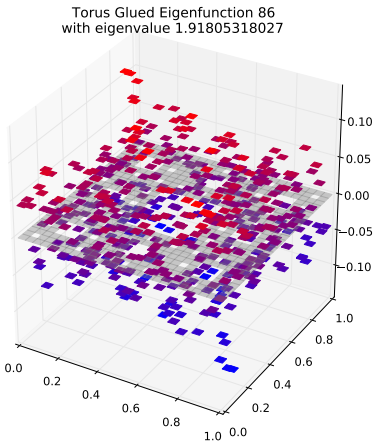
85 $M = 4$ Eigenfunction 84

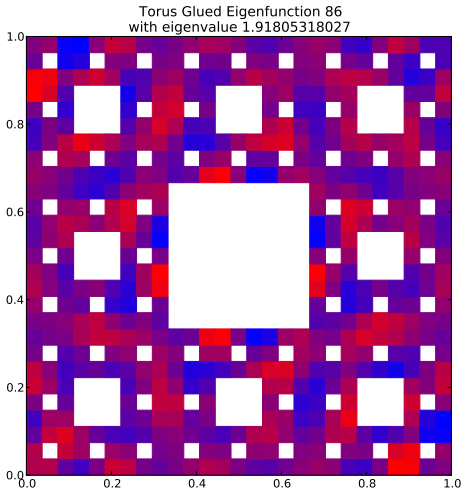
$M = 4$ Eigenfunction 84 has eigenvalue 0.337380921259





Compare to $m = 3$ eigenspace with eigenvalue 1.91805318027
(Note: Eigenspace Dimension > 1)

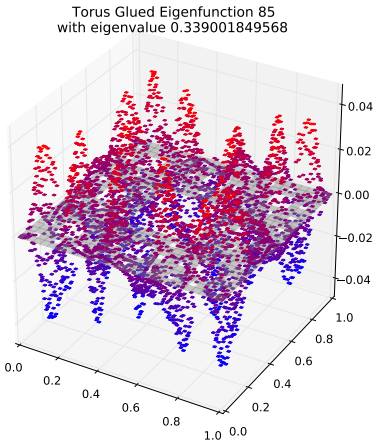


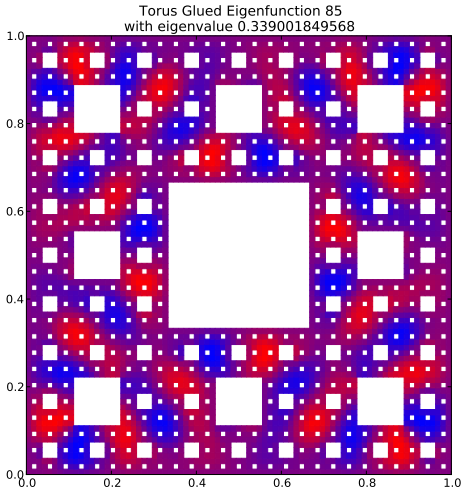


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.175897584452$
Dot Value: 0.04086776875231157

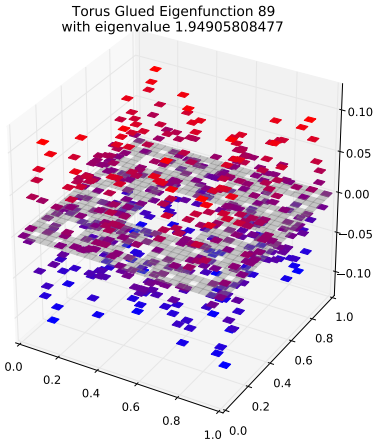
86 $M = 4$ Eigenfunction 85

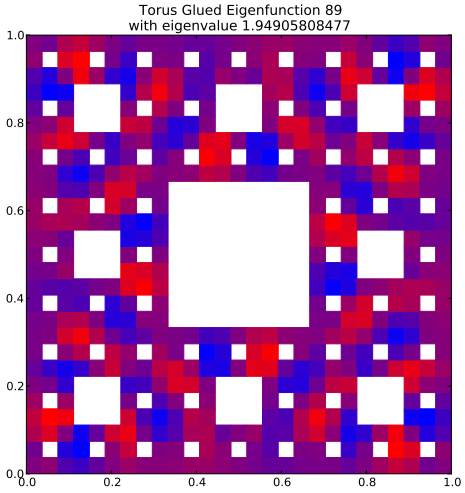
$M = 4$ Eigenfunction 85 has eigenvalue 0.339001849568





Compare to $m = 3$ eigenspace with eigenvalue 1.94905808477

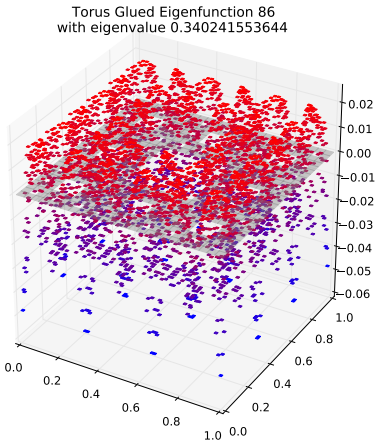


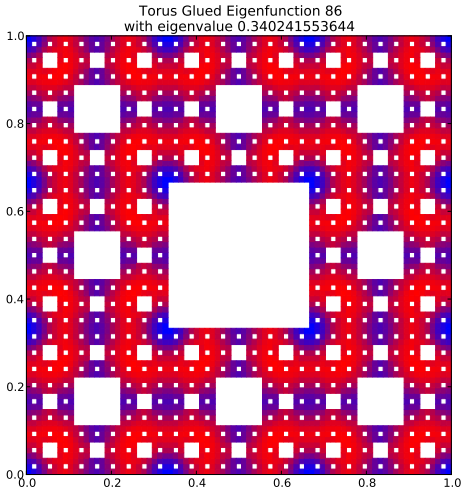


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.17393111689$
Dot Value: 0.020764783038973555

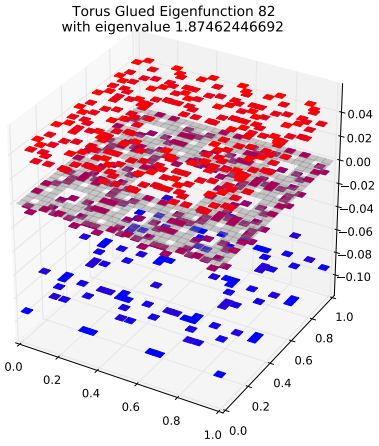
87 $M = 4$ Eigenfunction 86

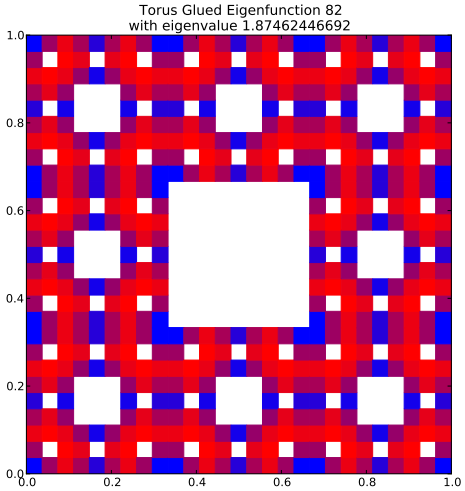
$M = 4$ Eigenfunction 86 has eigenvalue 0.340241553644





Compare to $m = 3$ eigenspace with eigenvalue 1.87462446692

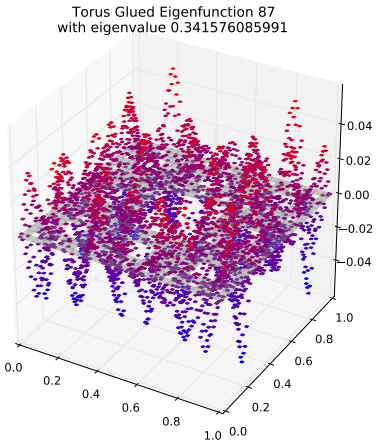


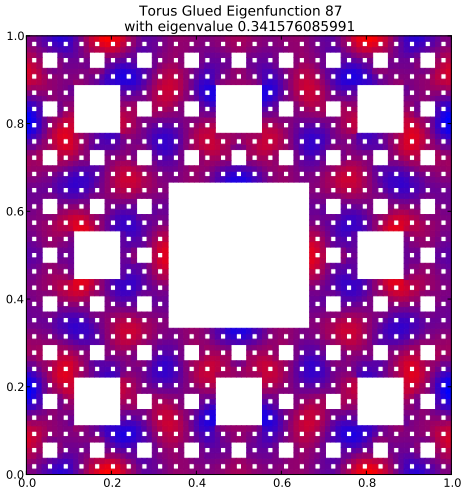


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.181498513247$
Dot Value: 0.017489625328882 32

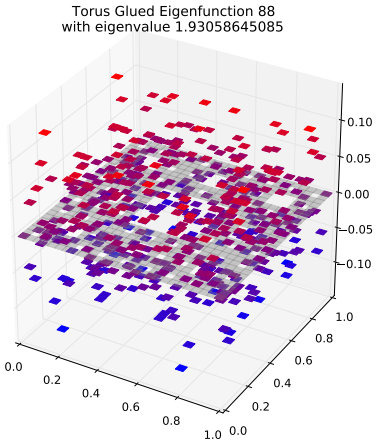
88 $M = 4$ Eigenfunction 87

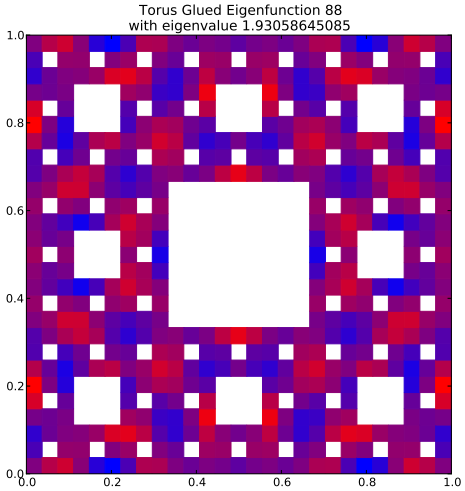
$M = 4$ Eigenfunction 87 has eigenvalue 0.341576085991





Compare to $m = 3$ eigenspace with eigenvalue 1.93058645085

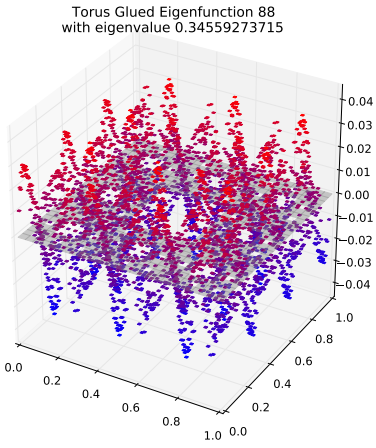


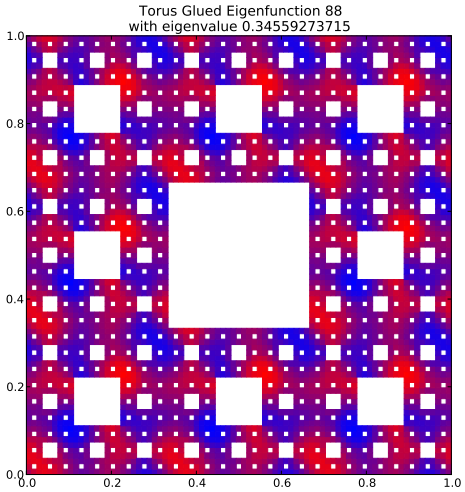


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.176928666334$
Dot Value: 0.01600569087584347

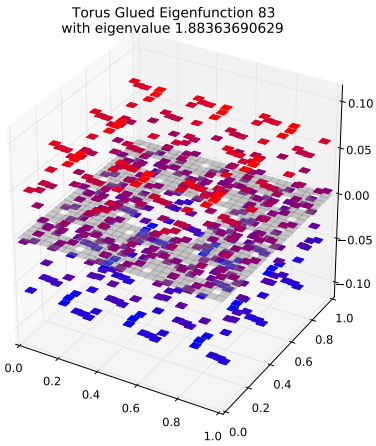
89 $M = 4$ Eigenfunction 88

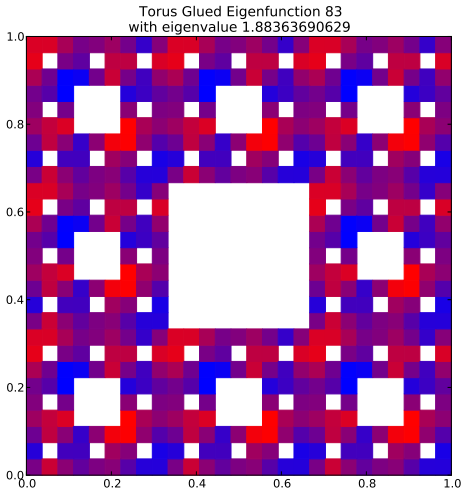
$M = 4$ Eigenfunction 88 has eigenvalue 0.34559273715





Compare to $m = 3$ eigenspace with eigenvalue 1.88363690629
(Note: Eigenspace Dimension > 1)

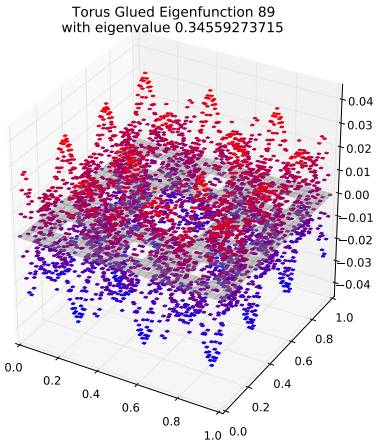


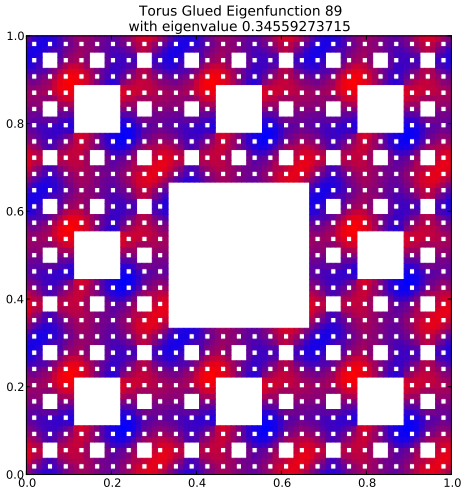


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.183470994859$
Dot Value: 0.007345580950168573

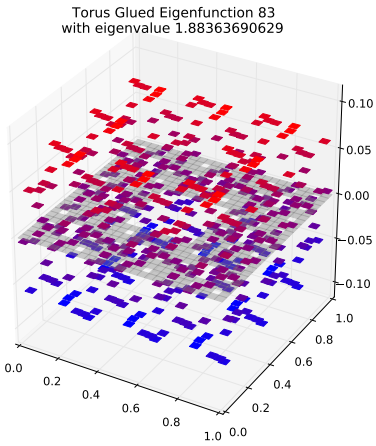
90 $M = 4$ Eigenfunction 89

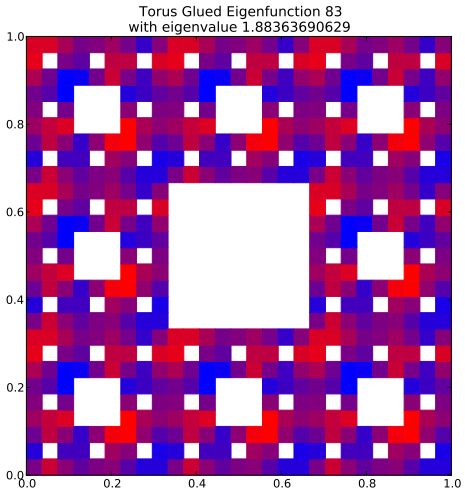
$M = 4$ Eigenfunction 89 has eigenvalue 0.34559273715





Compare to $m = 3$ eigenspace with eigenvalue 1.88363690629
(Note: Eigenspace Dimension > 1)

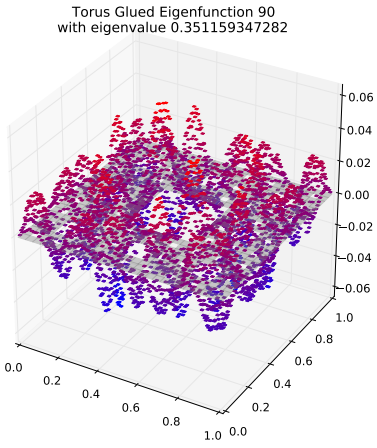


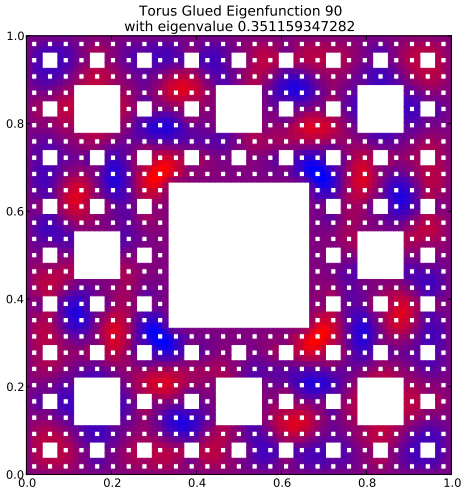


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.183470994859$
Dot Value: 0.007345580950168795

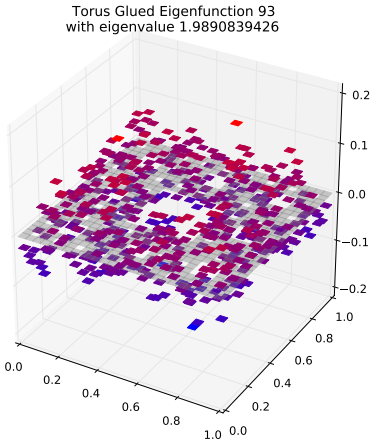
91 $M = 4$ Eigenfunction 90

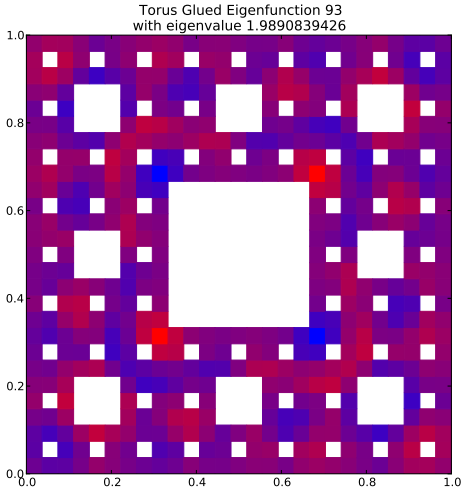
$M = 4$ Eigenfunction 90 has eigenvalue 0.351159347282





Compare to $m = 3$ eigenspace with eigenvalue 1.9890839426

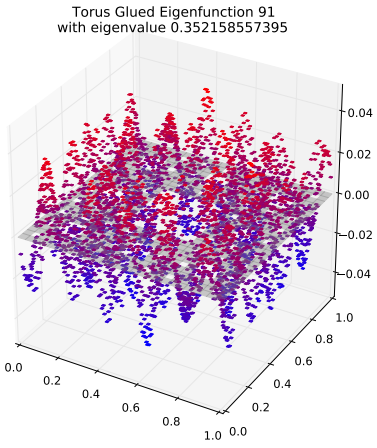


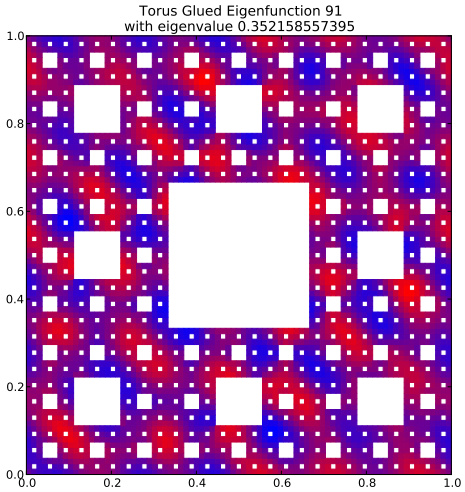


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.176543251775$
Dot Value: 0.07244035855490527

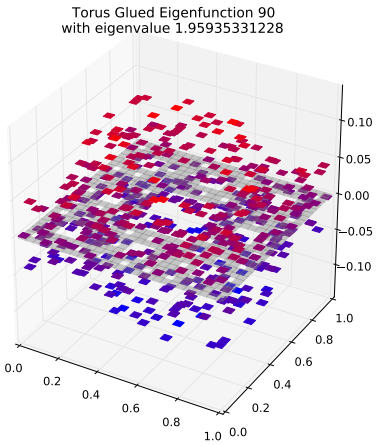
92 $M = 4$ Eigenfunction 91

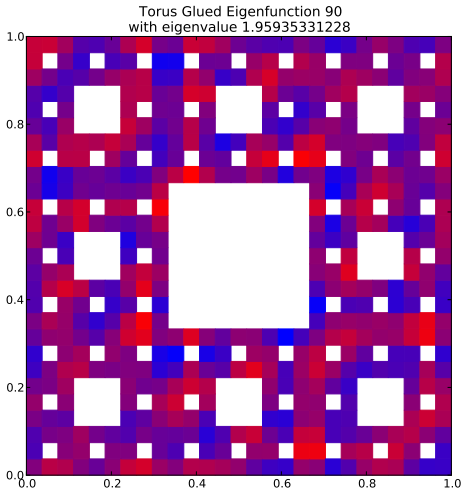
$M = 4$ Eigenfunction 91 has eigenvalue 0.352158557395





Compare to $m = 3$ eigenspace with eigenvalue 1.95935331228
(Note: Eigenspace Dimension > 1)

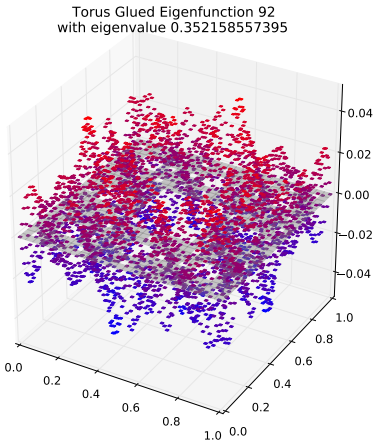


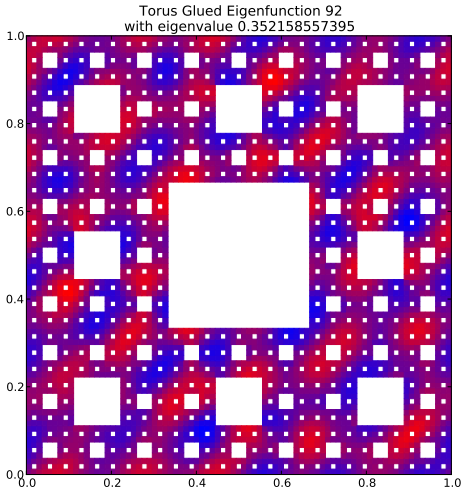


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.17973203464$
Dot Value: 0.1303671000398161

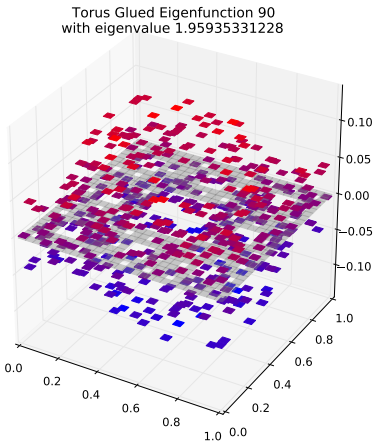
93 $M = 4$ Eigenfunction 92

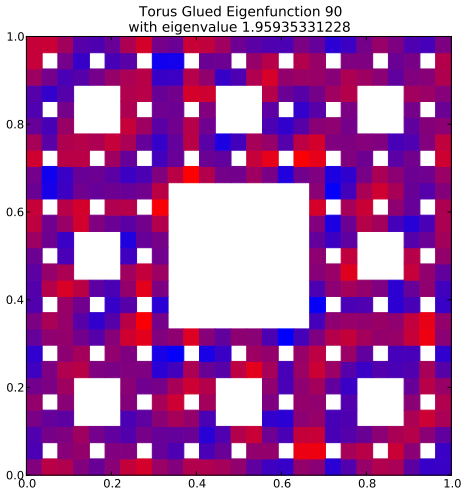
$M = 4$ Eigenfunction 92 has eigenvalue 0.352158557395





Compare to $m = 3$ eigenspace with eigenvalue 1.95935331228
(Note: Eigenspace Dimension > 1)

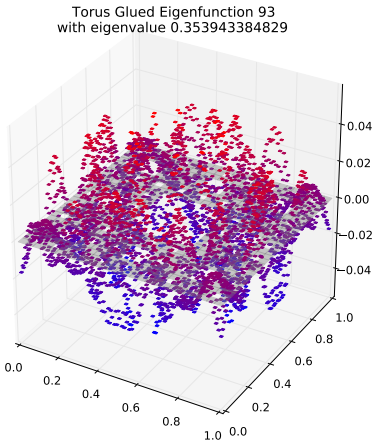


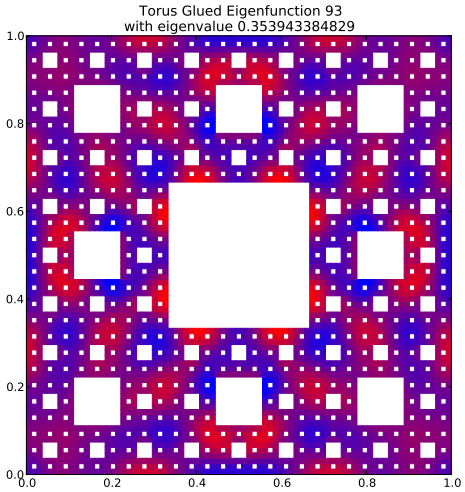


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.17973203464$
Dot Value: 0.13036710003981544

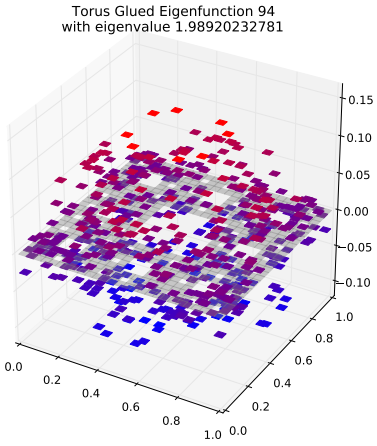
94 $M = 4$ Eigenfunction 93

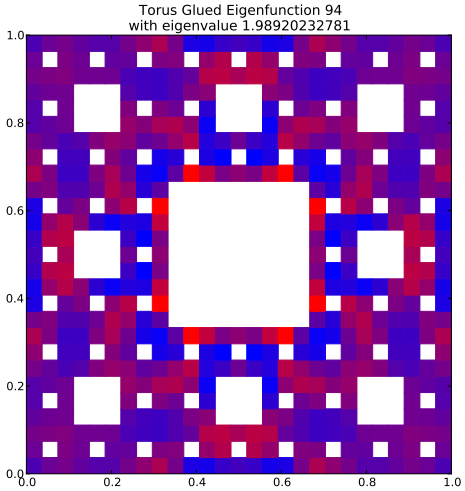
$M = 4$ Eigenfunction 93 has eigenvalue 0.353943384829





Compare to $m = 3$ eigenspace with eigenvalue 1.98920232781

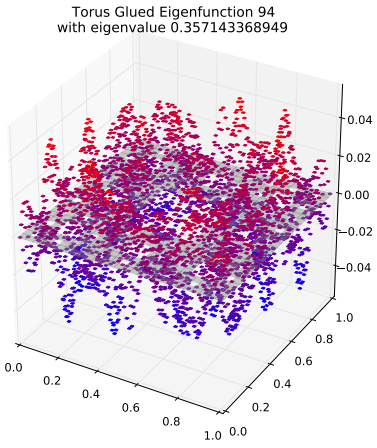


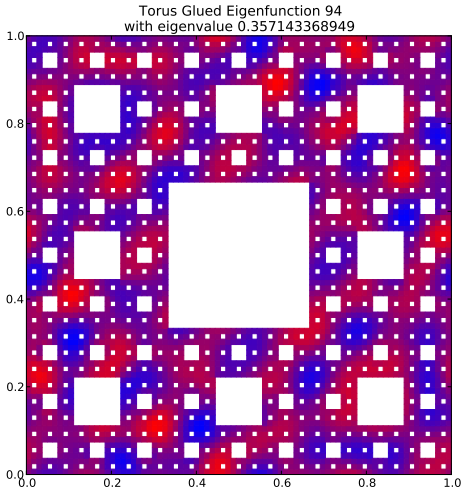


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.177932319845$
Dot Value: 0.14227995833110207

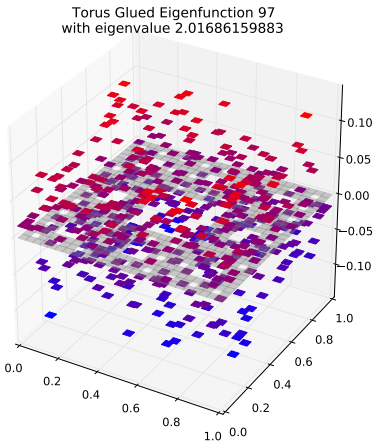
95 $M = 4$ Eigenfunction 94

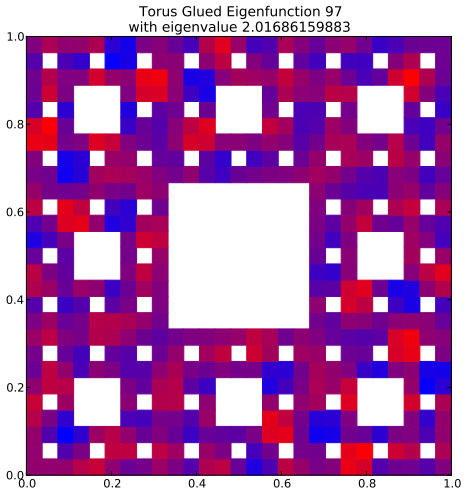
$M = 4$ Eigenfunction 94 has eigenvalue 0.357143368949





Compare to $m = 3$ eigenspace with eigenvalue 2.01686159883
(Note: Eigenspace Dimension > 1)

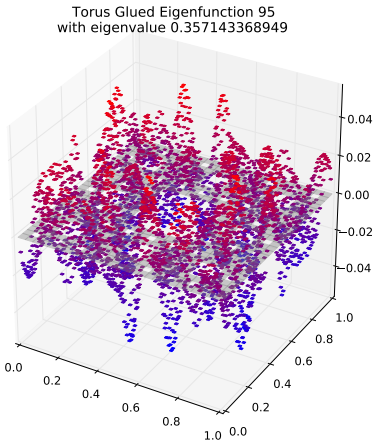


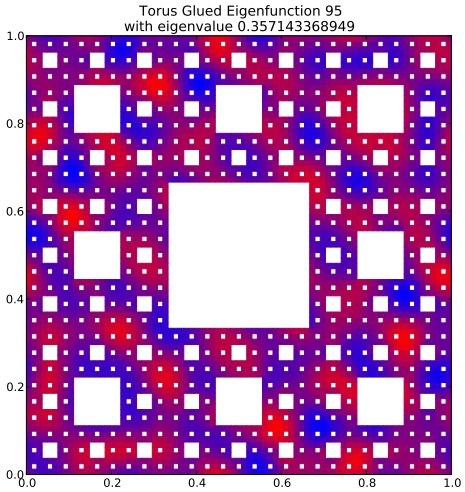


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.177078768893$
Dot Value: 0.25876846299430833

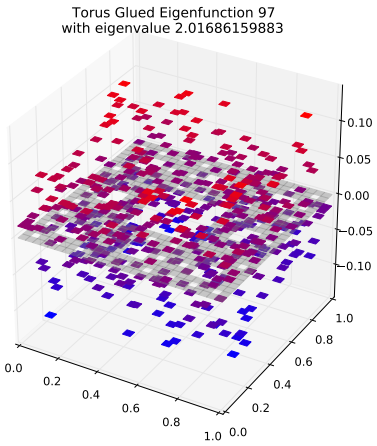
96 $M = 4$ Eigenfunction 95

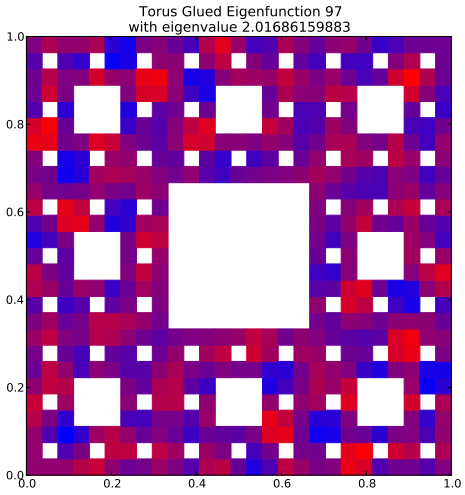
$M = 4$ Eigenfunction 95 has eigenvalue 0.357143368949





Compare to $m = 3$ eigenspace with eigenvalue 2.01686159883
(Note: Eigenspace Dimension > 1)

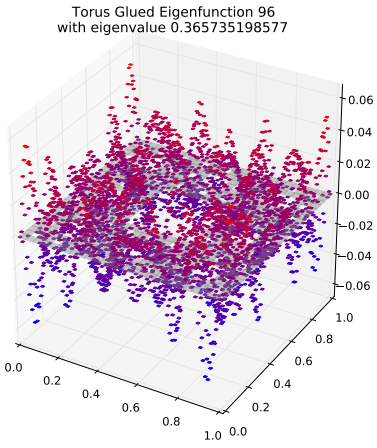


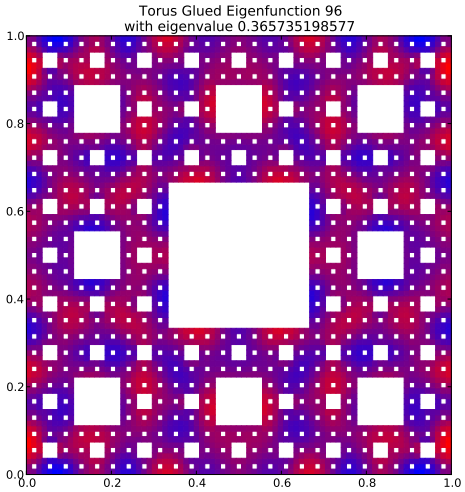


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.177078768893$
Dot Value: 0.25876846299427614

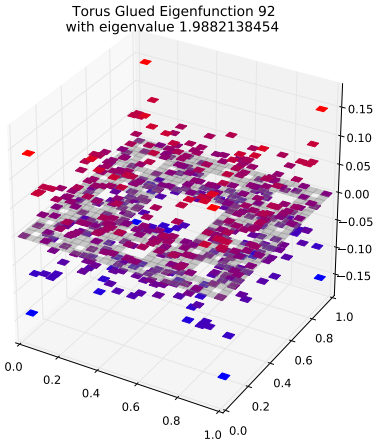
97 $M = 4$ Eigenfunction 96

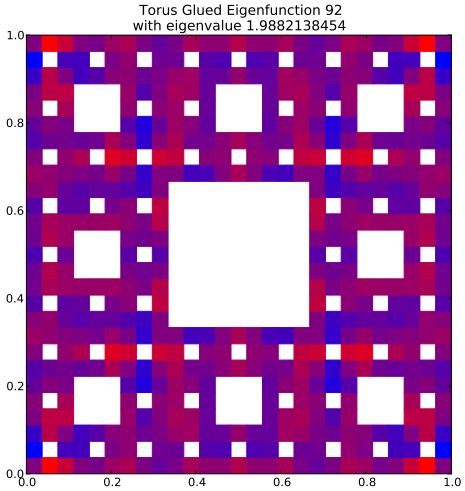
$M = 4$ Eigenfunction 96 has eigenvalue 0.365735198577





Compare to $m = 3$ eigenspace with eigenvalue 1.9882138454

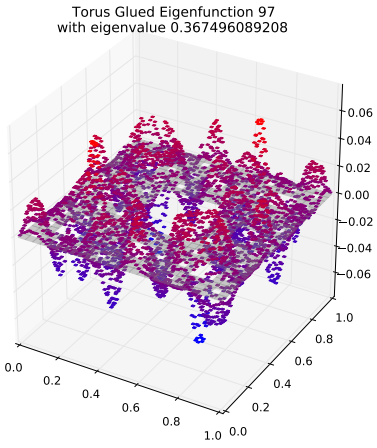


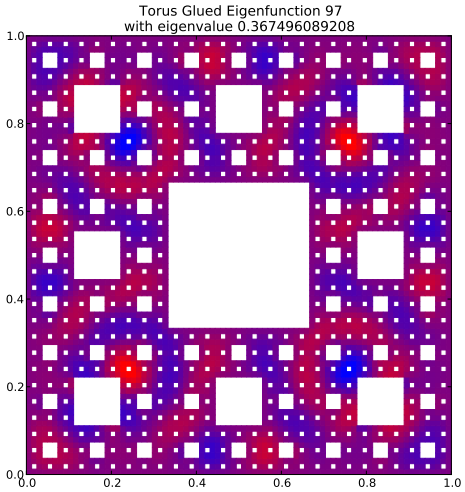


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.183951640525$
Dot Value: 0.1783091081995316

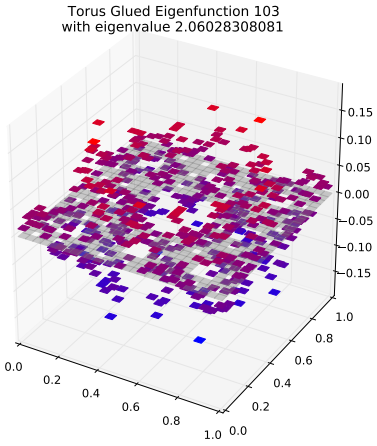
98 $M = 4$ Eigenfunction 97

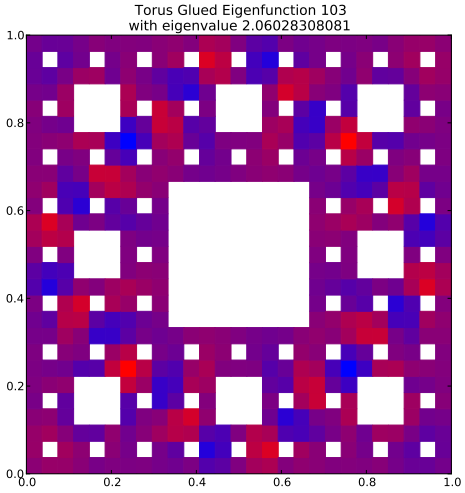
$M = 4$ Eigenfunction 97 has eigenvalue 0.367496089208





Compare to $m = 3$ eigenspace with eigenvalue 2.06028308081

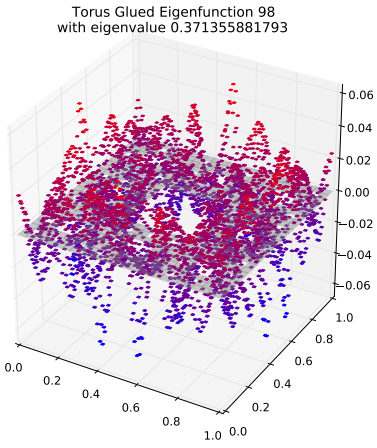


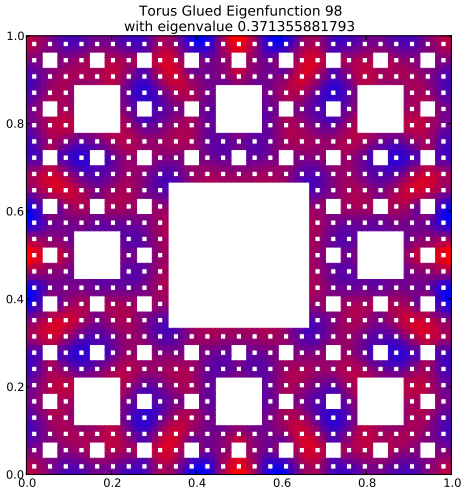


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.178371648357$
Dot Value: 0.09997050688668674

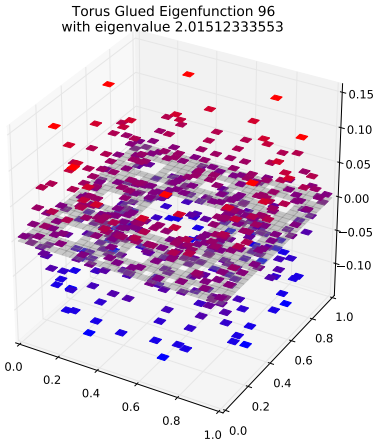
99 $M = 4$ Eigenfunction 98

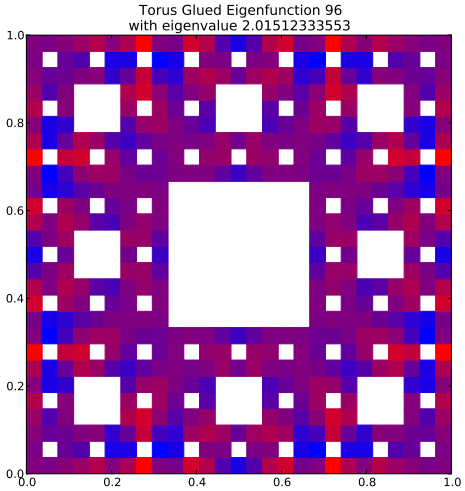
$M = 4$ Eigenfunction 98 has eigenvalue 0.371355881793





Compare to $m = 3$ eigenspace with eigenvalue 2.01512333553

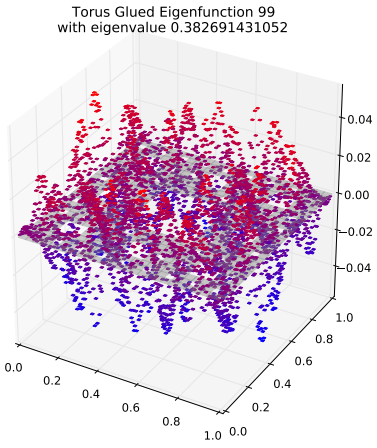


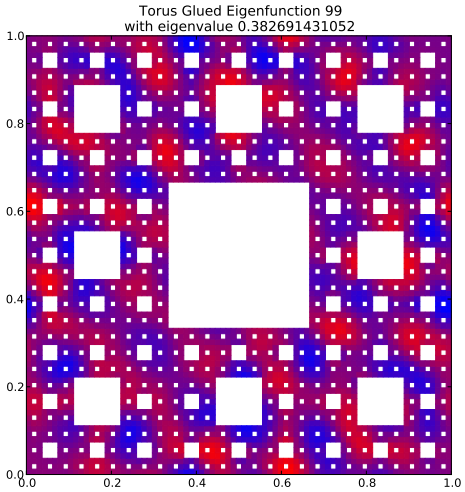


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.184284443164$
Dot Value: 0.24274248574835278

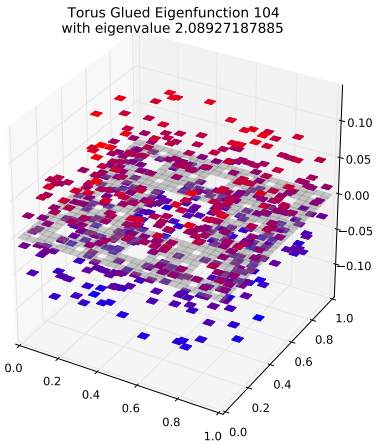
100 $M = 4$ Eigenfunction 99

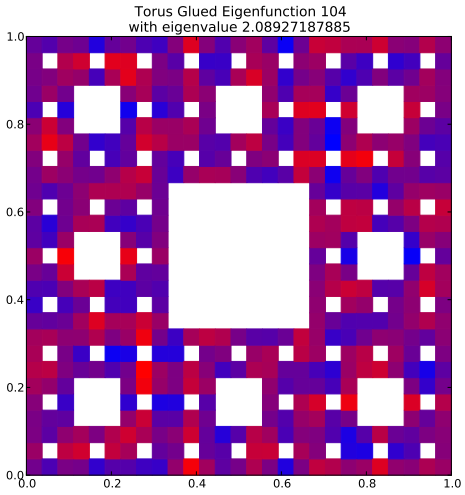
$M = 4$ Eigenfunction 99 has eigenvalue 0.382691431052





Compare to $m = 3$ eigenspace with eigenvalue 2.08927187885
(Note: Eigenspace Dimension > 1)

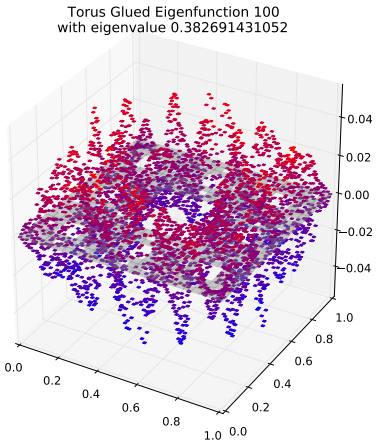


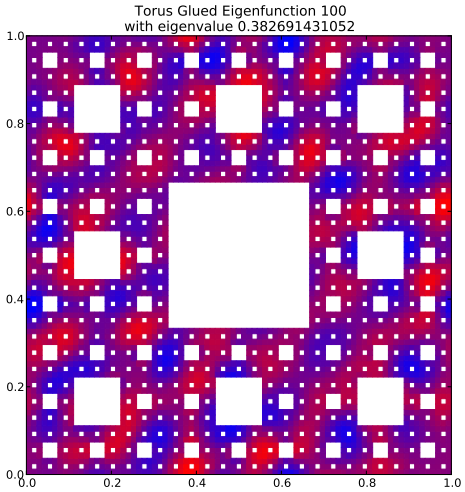


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.183169761163$
Dot Value: 0.29243949629006605

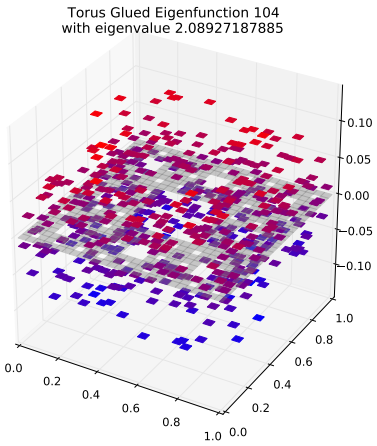
101 $M = 4$ Eigenfunction 100

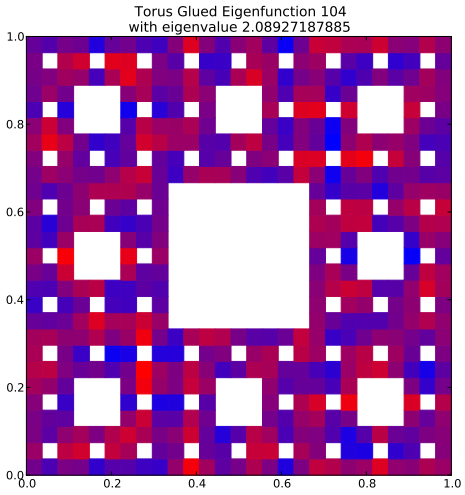
$M = 4$ Eigenfunction 100 has eigenvalue 0.382691431052





Compare to $m = 3$ eigenspace with eigenvalue 2.08927187885
(Note: Eigenspace Dimension > 1)

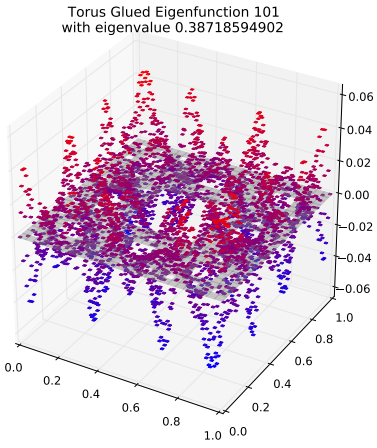


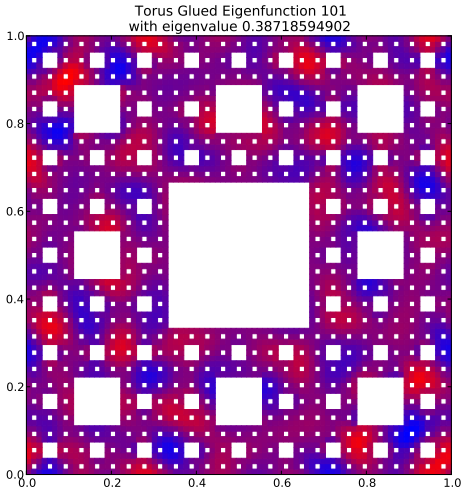


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.183169761163$
Dot Value: 0.2924394962900675

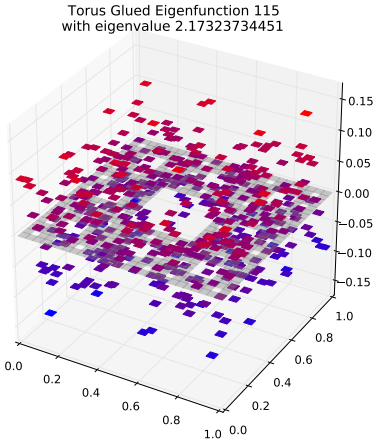
102 $M = 4$ Eigenfunction 101

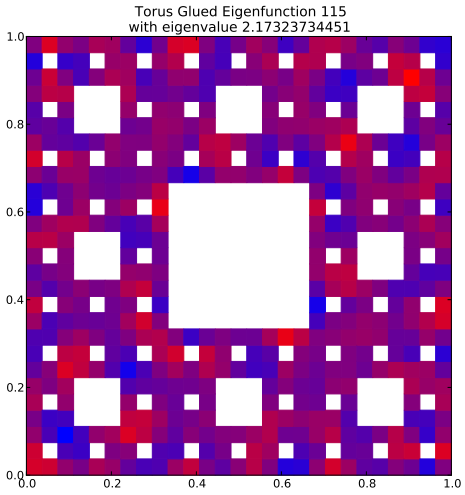
$M = 4$ Eigenfunction 101 has eigenvalue 0.38718594902





Compare to $m = 3$ eigenspace with eigenvalue 2.17323734451
(Note: Eigenspace Dimension > 1)

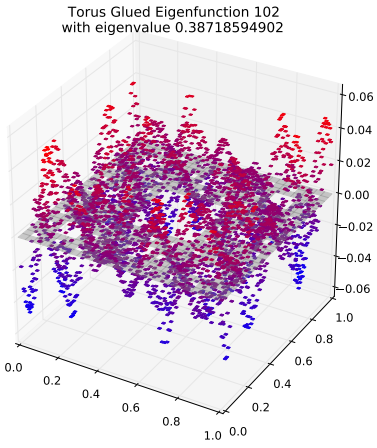


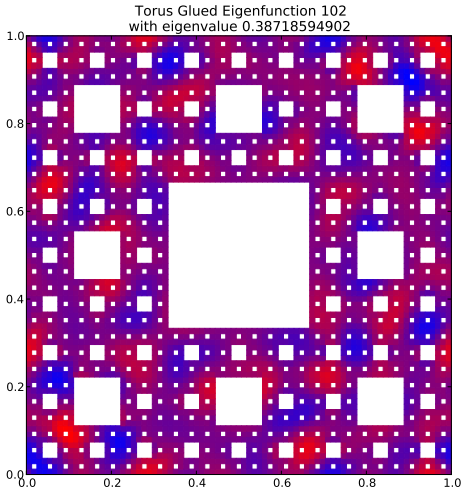


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.178160912795$
Dot Value: 0.40748408490048227

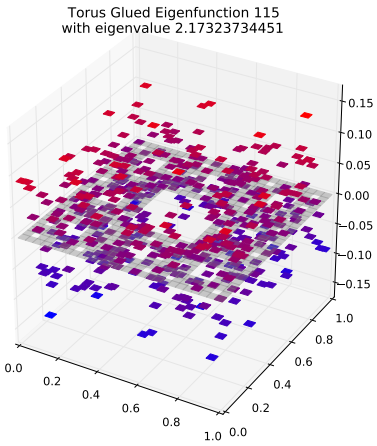
103 $M = 4$ Eigenfunction 102

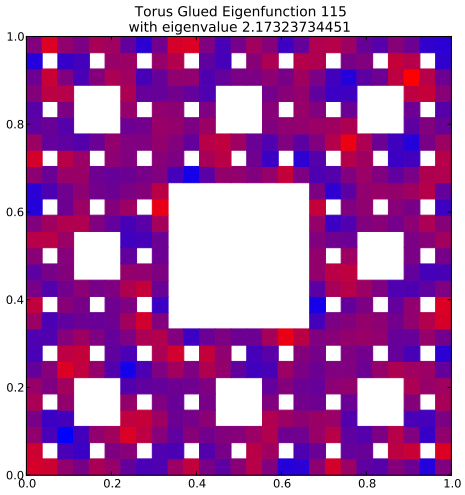
$M = 4$ Eigenfunction 102 has eigenvalue 0.38718594902





Compare to $m = 3$ eigenspace with eigenvalue 2.17323734451
(Note: Eigenspace Dimension > 1)

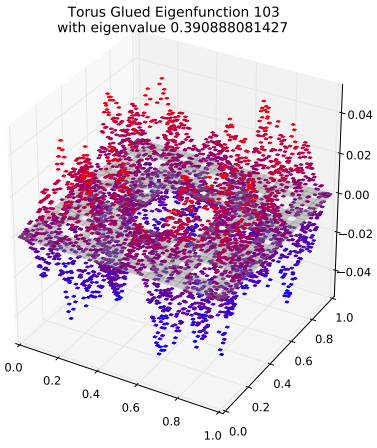


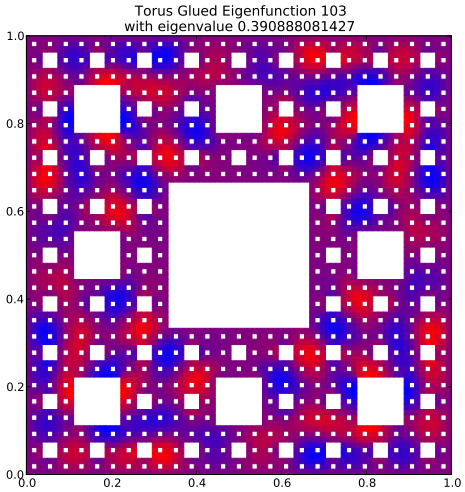


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.178160912795$
Dot Value: 0.40748408490053634

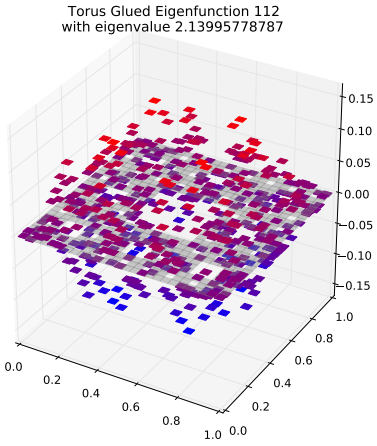
104 $M = 4$ Eigenfunction 103

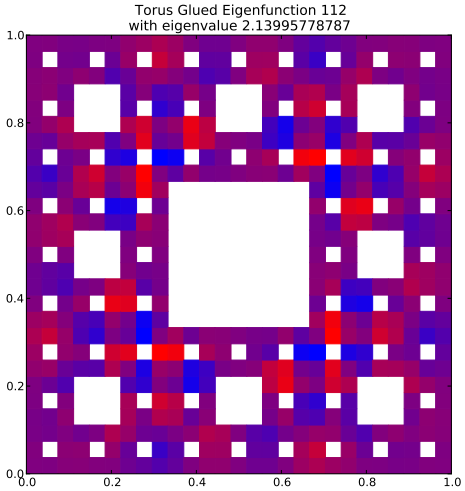
$M = 4$ Eigenfunction 103 has eigenvalue 0.390888081427





Compare to $m = 3$ eigenspace with eigenvalue 2.13995778787

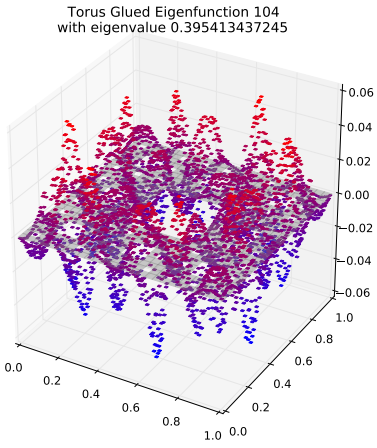


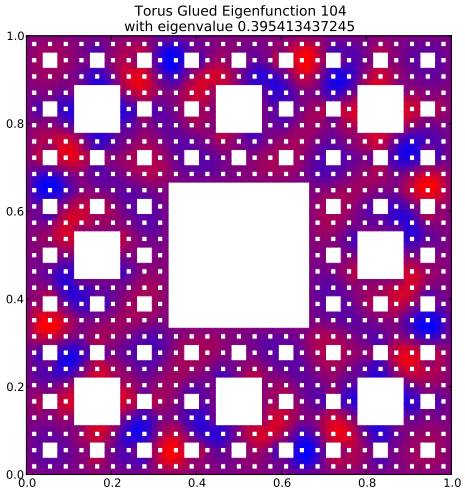


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.182661585029$
Dot Value: 0.2997916342950224

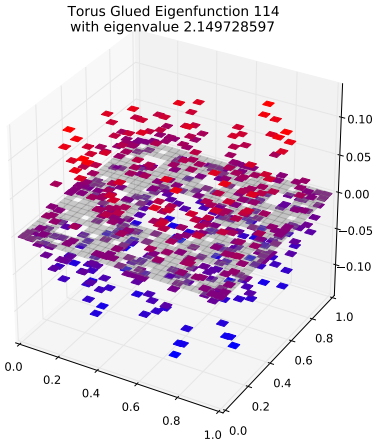
105 $M = 4$ Eigenfunction 104

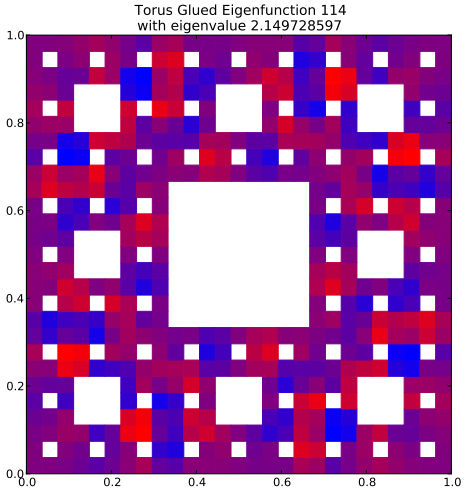
$M = 4$ Eigenfunction 104 has eigenvalue 0.395413437245





Compare to $m = 3$ eigenspace with eigenvalue 2.149728597

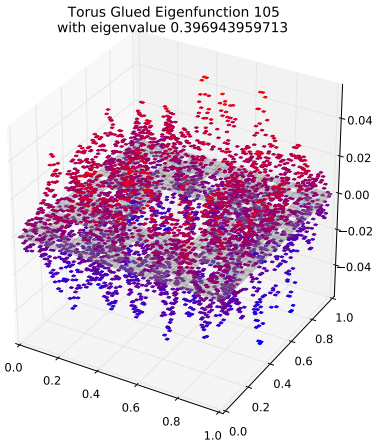


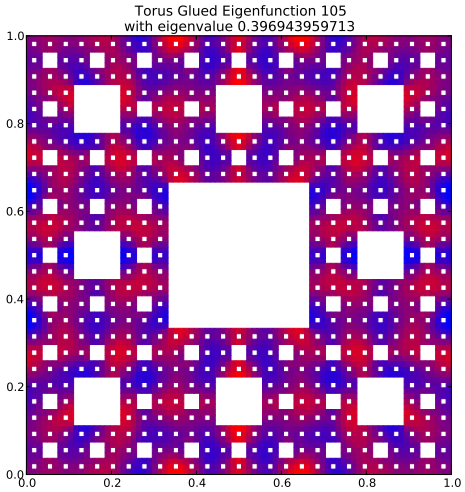


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.18393644565$
Dot Value: 0.2503928934942673

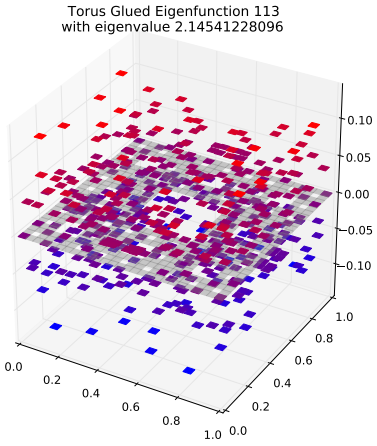
106 $M = 4$ Eigenfunction 105

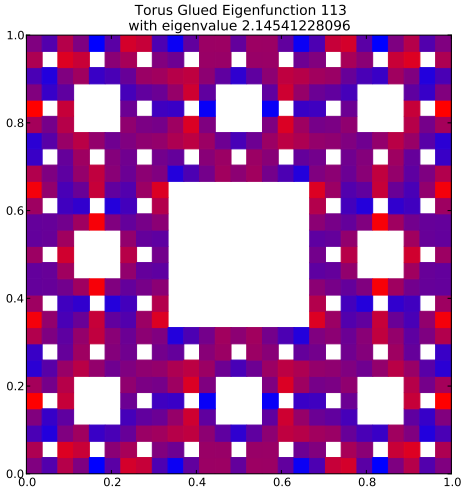
$M = 4$ Eigenfunction 105 has eigenvalue 0.396943959713





Compare to $m = 3$ eigenspace with eigenvalue 2.14541228096

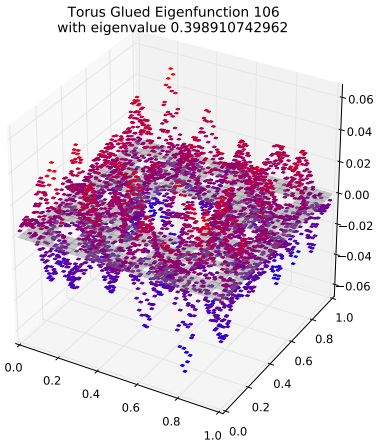


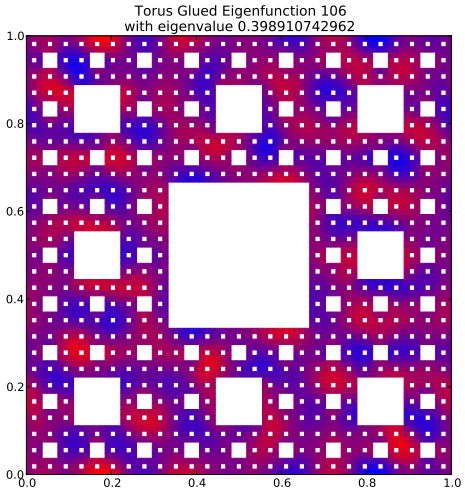


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.185019897218$
Dot Value: 0.3588432236764312

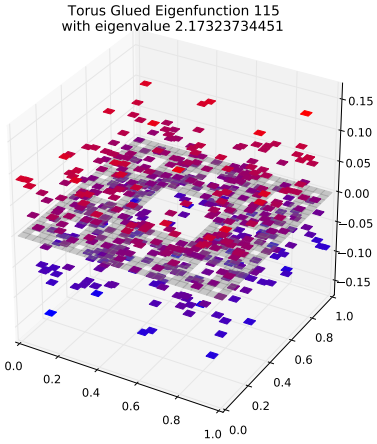
107 $M = 4$ Eigenfunction 106

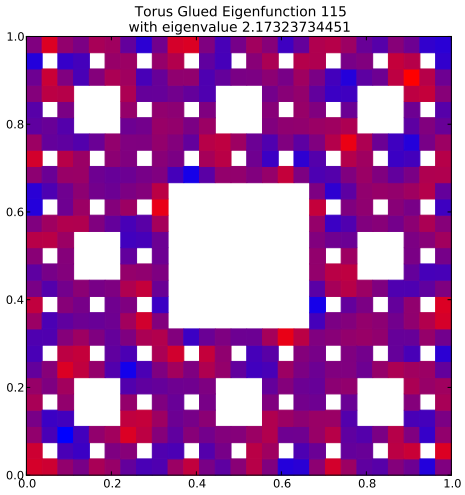
$M = 4$ Eigenfunction 106 has eigenvalue 0.398910742962





Compare to $m = 3$ eigenspace with eigenvalue 2.17323734451
(Note: Eigenspace Dimension > 1)

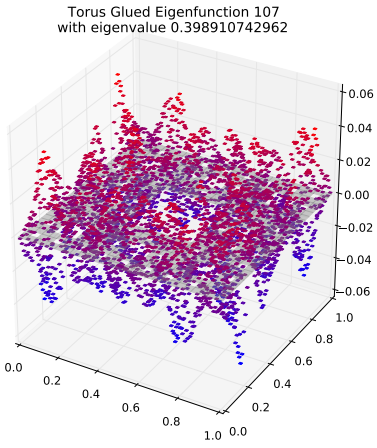


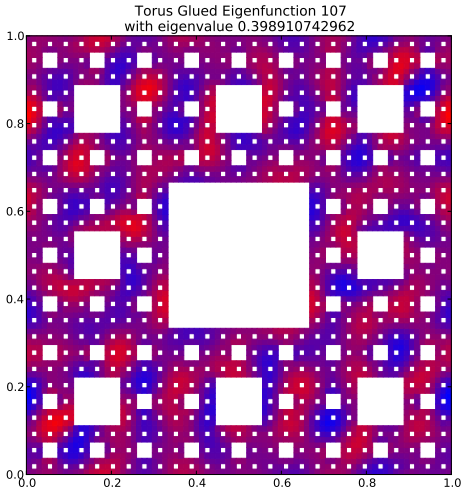


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.183555994916$
Dot Value: 0.37479963740263844

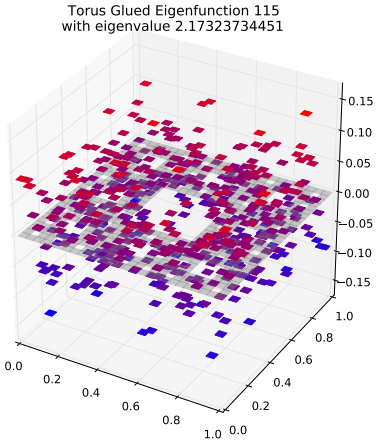
108 $M = 4$ Eigenfunction 107

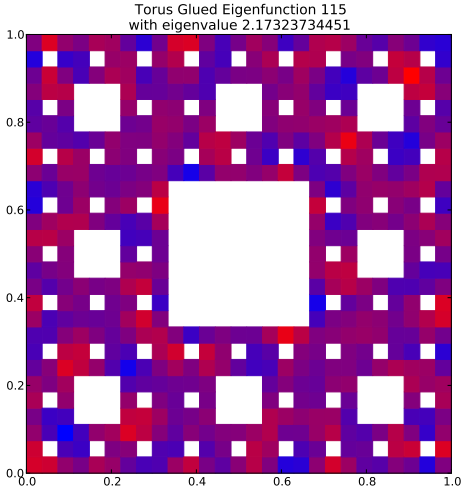
$M = 4$ Eigenfunction 107 has eigenvalue 0.398910742962





Compare to $m = 3$ eigenspace with eigenvalue 2.17323734451
(Note: Eigenspace Dimension > 1)

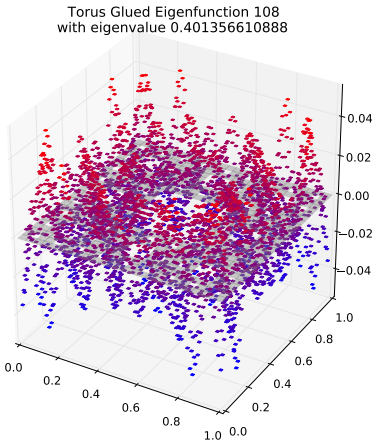


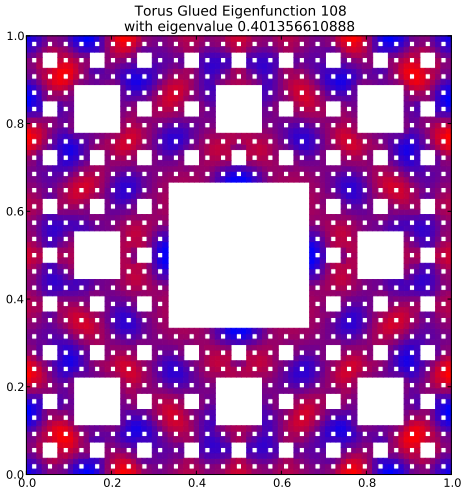


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.183555994916$
Dot Value: 0.3747996374027375

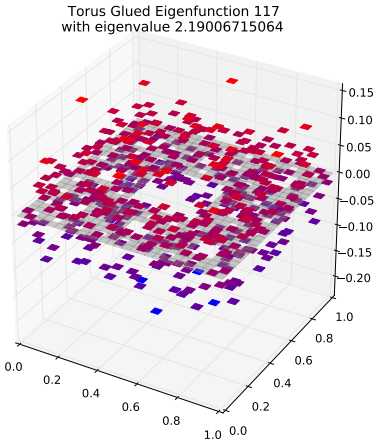
109 $M = 4$ Eigenfunction 108

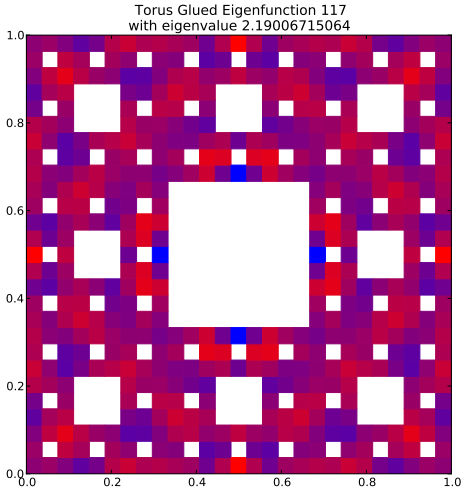
$M = 4$ Eigenfunction 108 has eigenvalue 0.401356610888





Compare to $m = 3$ eigenspace with eigenvalue 2.19006715064

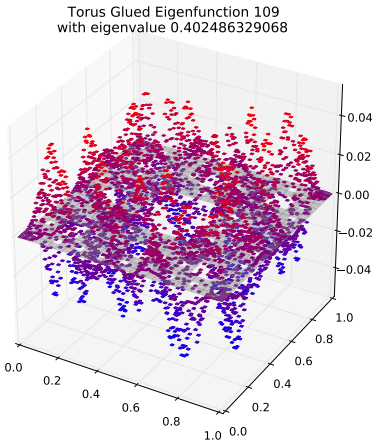


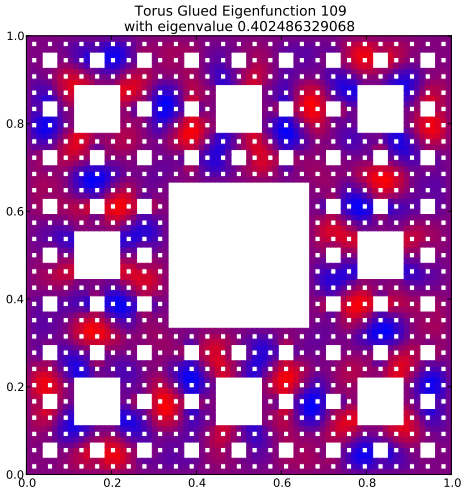


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.183262239594$
Dot Value: 0.216243484414409

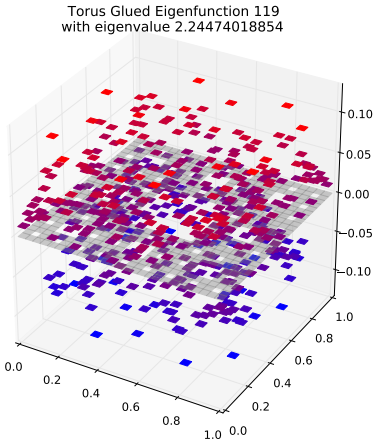
110 $M = 4$ Eigenfunction 109

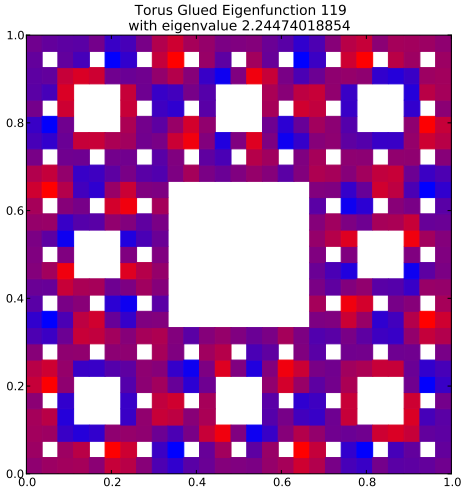
$M = 4$ Eigenfunction 109 has eigenvalue 0.402486329068





Compare to $m = 3$ eigenspace with eigenvalue 2.24474018854

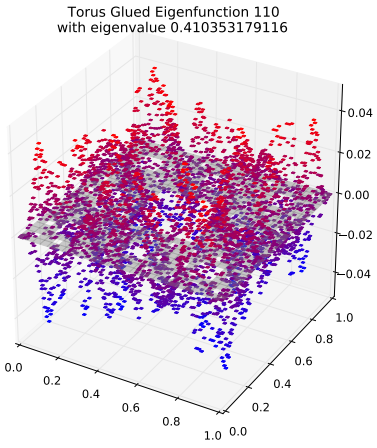


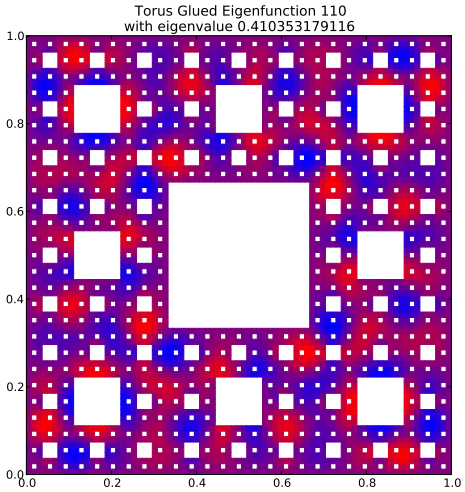


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.179301966046$
Dot Value: 0.217526504540432

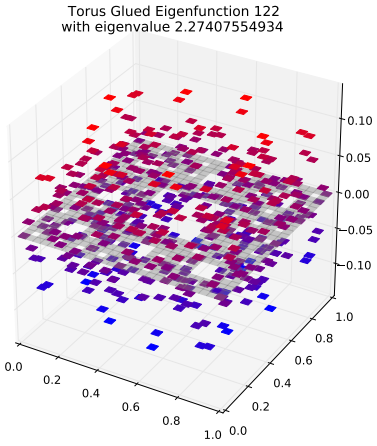
111 $M = 4$ Eigenfunction 110

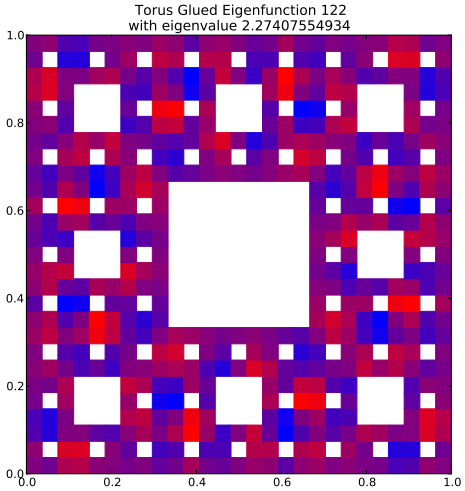
$M = 4$ Eigenfunction 110 has eigenvalue 0.410353179116





Compare to $m = 3$ eigenspace with eigenvalue 2.27407554934

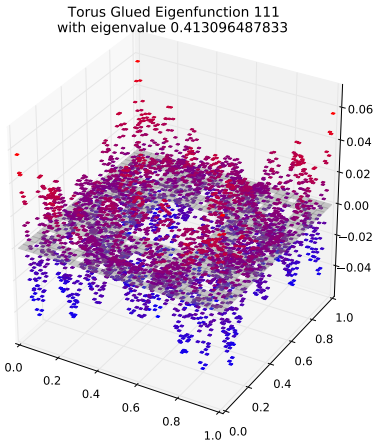


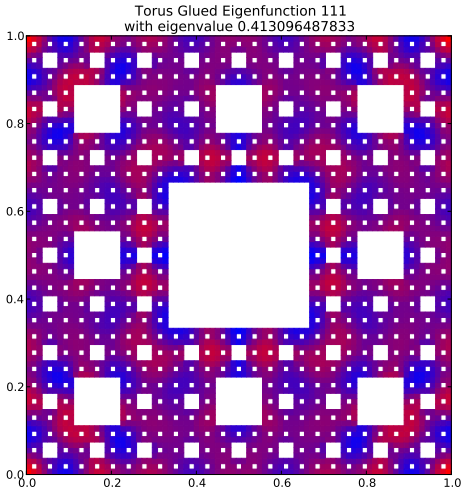


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.180448349324$
Dot Value: 0.19930273453801595

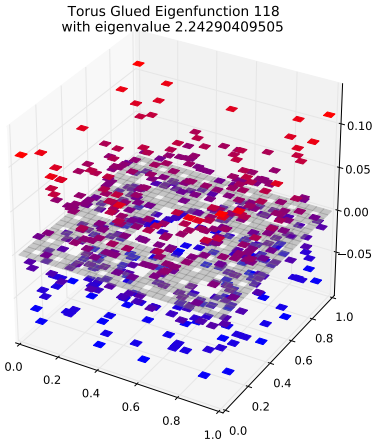
112 $M = 4$ Eigenfunction 111

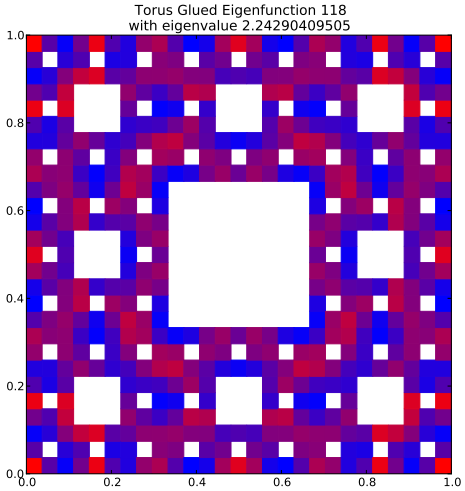
$M = 4$ Eigenfunction 111 has eigenvalue 0.413096487833





Compare to $m = 3$ eigenspace with eigenvalue 2.24290409505

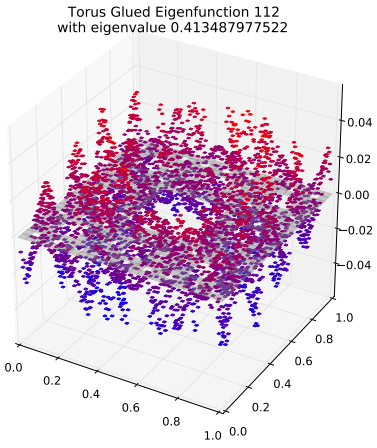


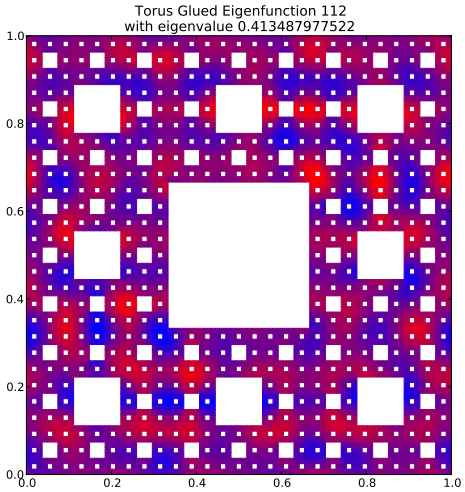


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.184179291814$
Dot Value: 0.35043644644604544

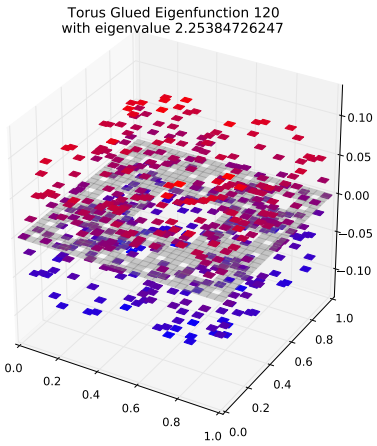
113 $M = 4$ Eigenfunction 112

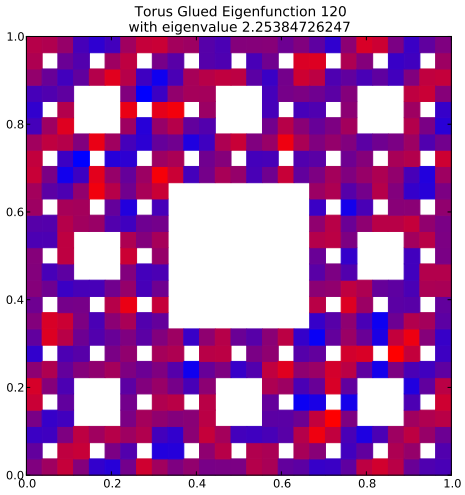
$M = 4$ Eigenfunction 112 has eigenvalue 0.413487977522





Compare to $m = 3$ eigenspace with eigenvalue 2.25384726247
(Note: Eigenspace Dimension > 1)

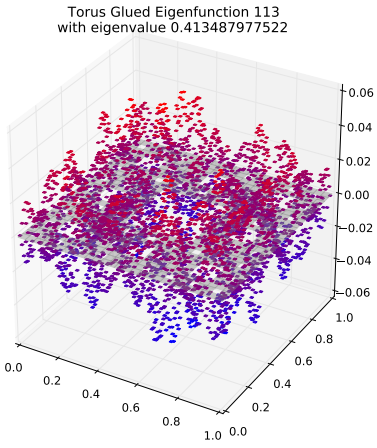


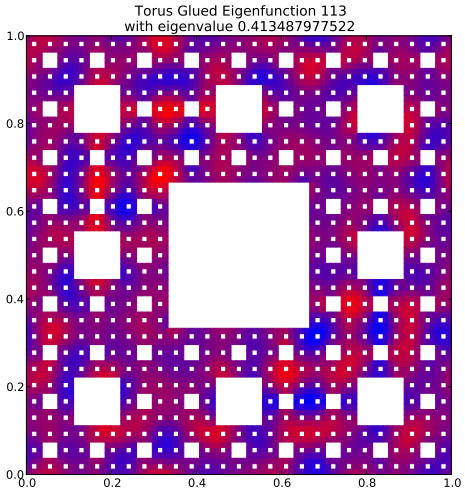


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.183458739378$
Dot Value: 0.36901491700651845

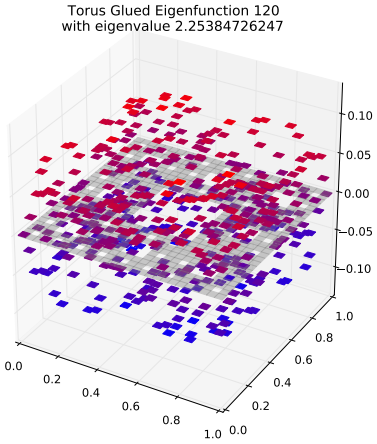
114 $M = 4$ Eigenfunction 113

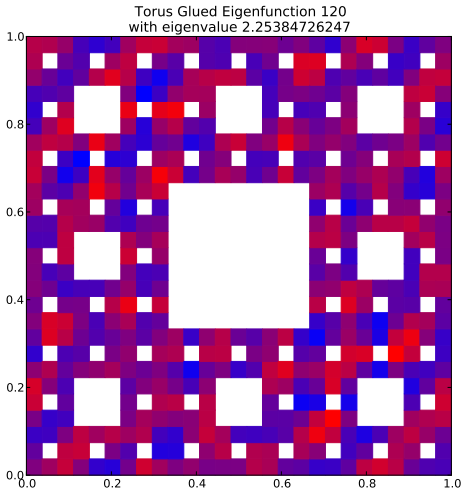
$M = 4$ Eigenfunction 113 has eigenvalue 0.413487977522





Compare to $m = 3$ eigenspace with eigenvalue 2.25384726247
(Note: Eigenspace Dimension > 1)

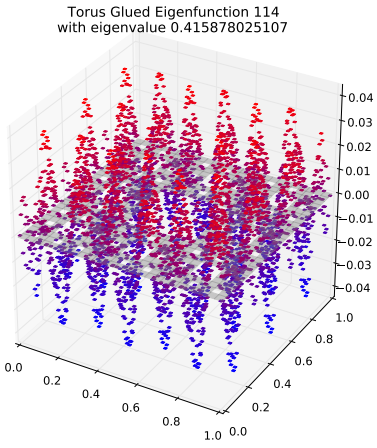


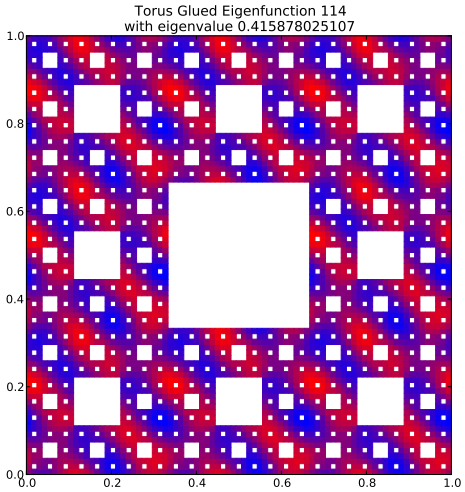


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.183458739378$
Dot Value: 0.36901491700637623

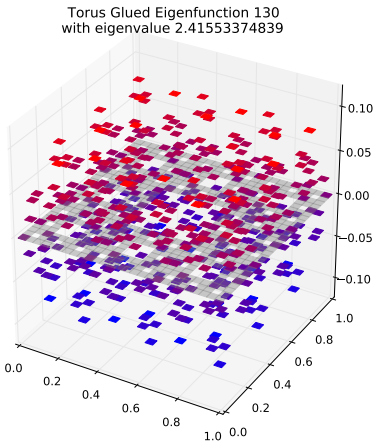
115 $M = 4$ Eigenfunction 114

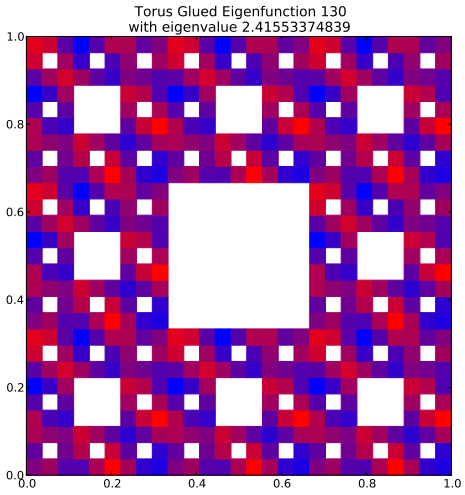
$M = 4$ Eigenfunction 114 has eigenvalue 0.415878025107





Compare to $m = 3$ eigenspace with eigenvalue 2.41553374839
(Note: Eigenspace Dimension > 1)

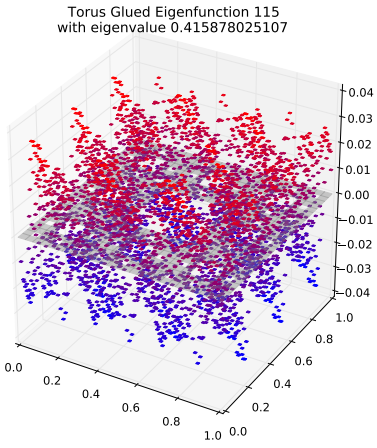


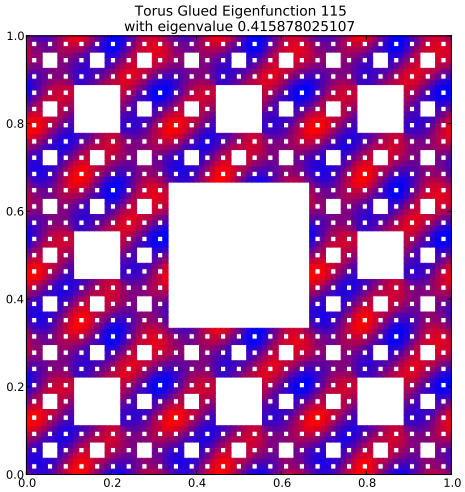


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.17216817003$
Dot Value: 0.010739287809013565

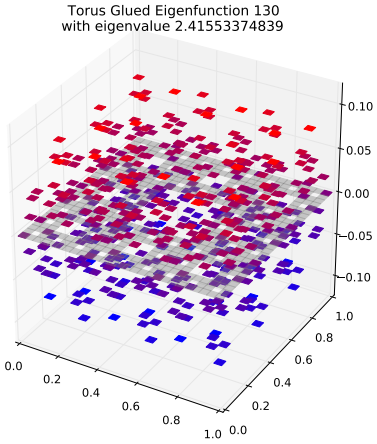
116 $M = 4$ Eigenfunction 115

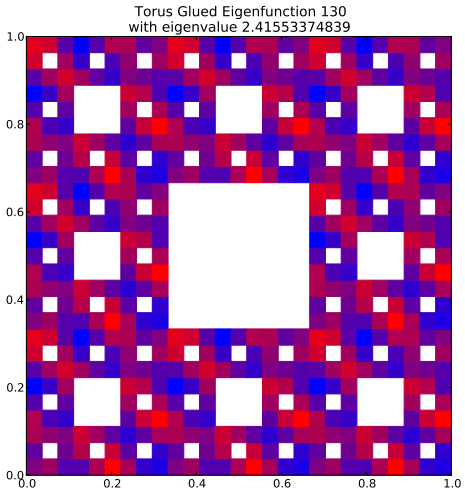
$M = 4$ Eigenfunction 115 has eigenvalue 0.415878025107





Compare to $m = 3$ eigenspace with eigenvalue 2.41553374839
(Note: Eigenspace Dimension > 1)

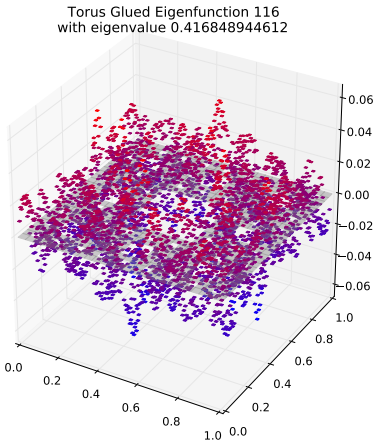


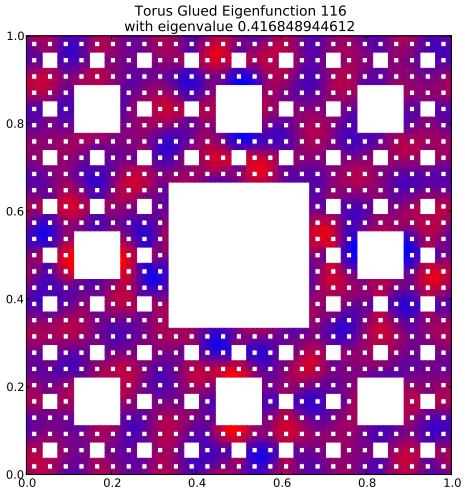


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.17216817003$
Dot Value: 0.010739287809012565

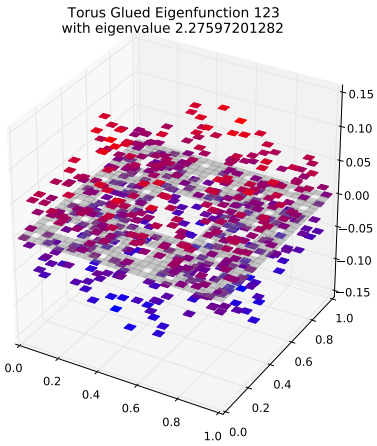
117 $M = 4$ Eigenfunction 116

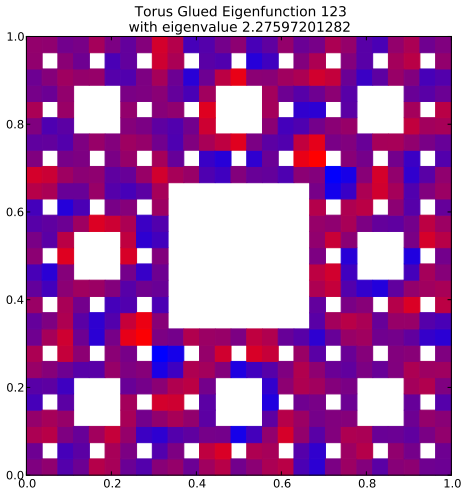
$M = 4$ Eigenfunction 116 has eigenvalue 0.416848944612





Compare to $m = 3$ eigenspace with eigenvalue 2.27597201282
(Note: Eigenspace Dimension > 1)

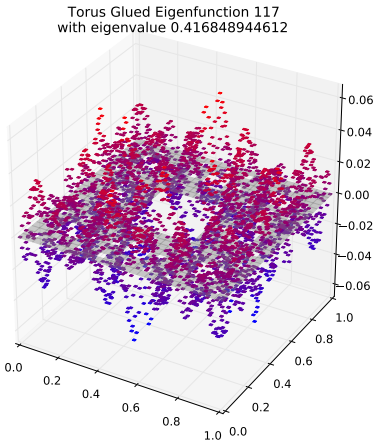


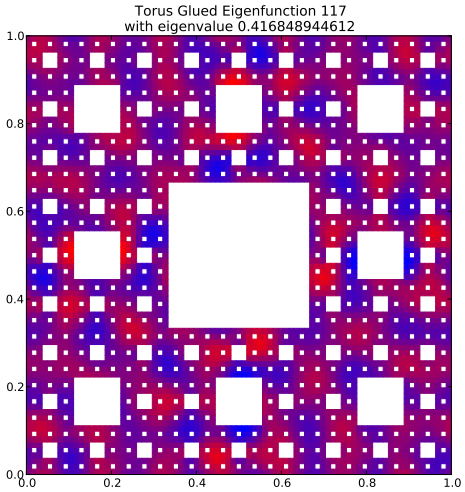


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.183152052074$
Dot Value: 0.31054975563010434

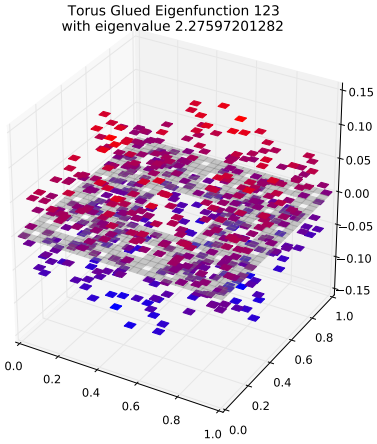
118 $M = 4$ Eigenfunction 117

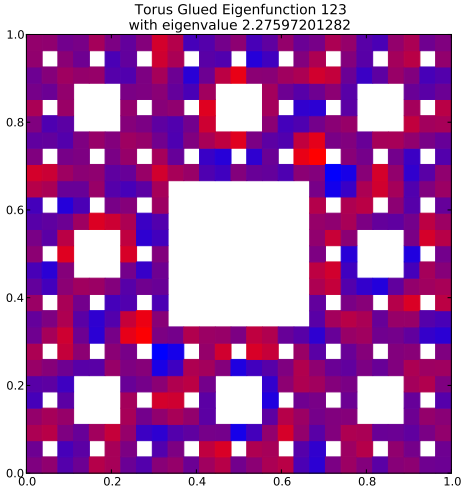
$M = 4$ Eigenfunction 117 has eigenvalue 0.416848944612





Compare to $m = 3$ eigenspace with eigenvalue 2.27597201282
(Note: Eigenspace Dimension > 1)

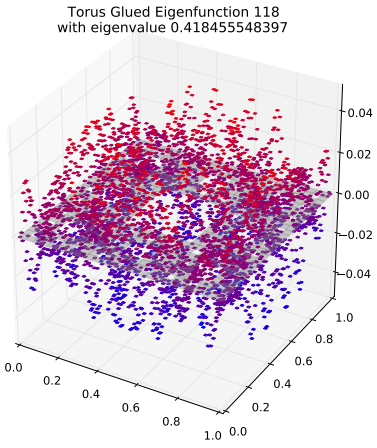


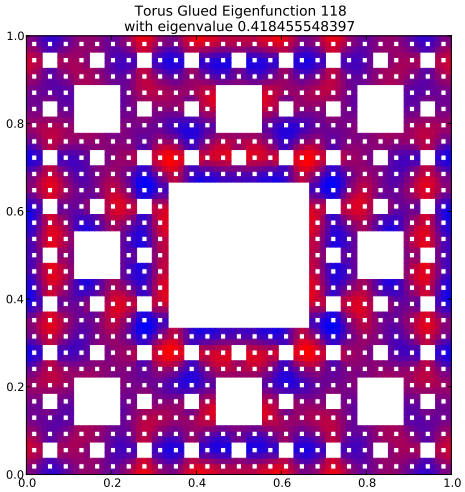


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.183152052074$
Dot Value: 0.31054975563011356

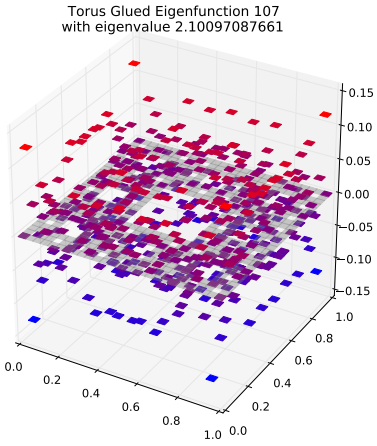
119 $M = 4$ Eigenfunction 118

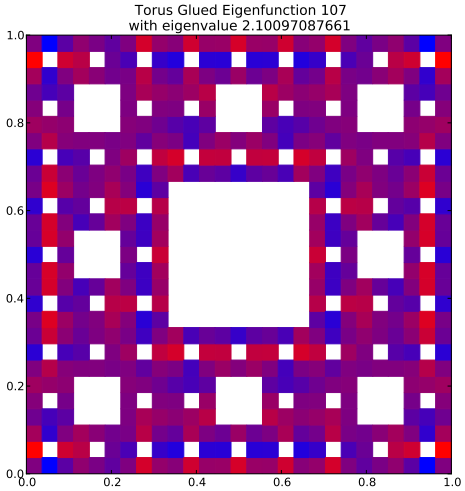
$M = 4$ Eigenfunction 118 has eigenvalue 0.418455548397





Compare to $m = 3$ eigenspace with eigenvalue 2.10097087661

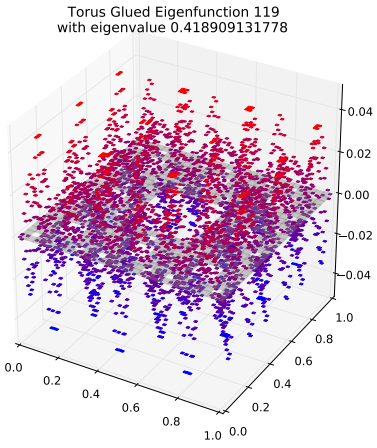


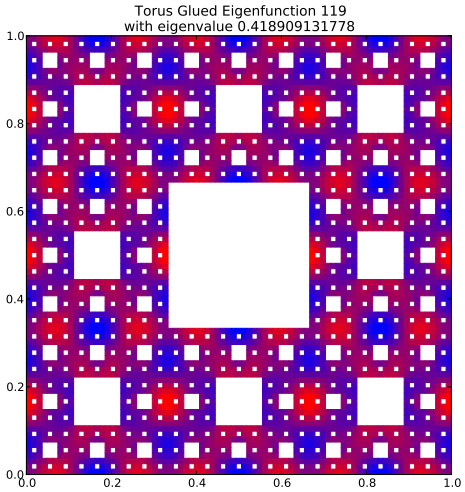


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.199172465004$
Dot Value: 0.09231944740266351

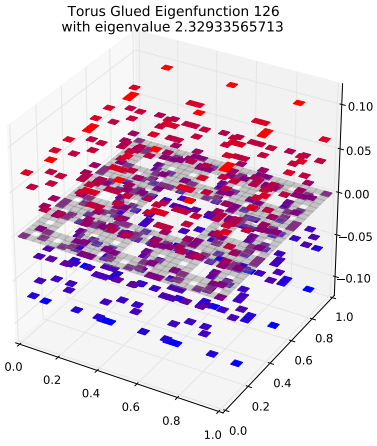
120 $M = 4$ Eigenfunction 119

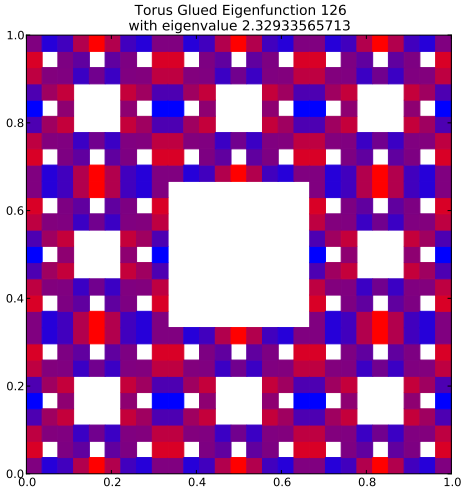
$M = 4$ Eigenfunction 119 has eigenvalue 0.418909131778





Compare to $m = 3$ eigenspace with eigenvalue 2.32933565713

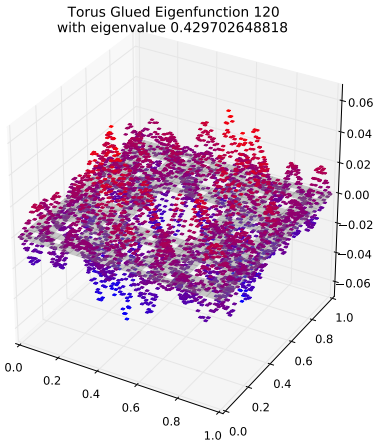


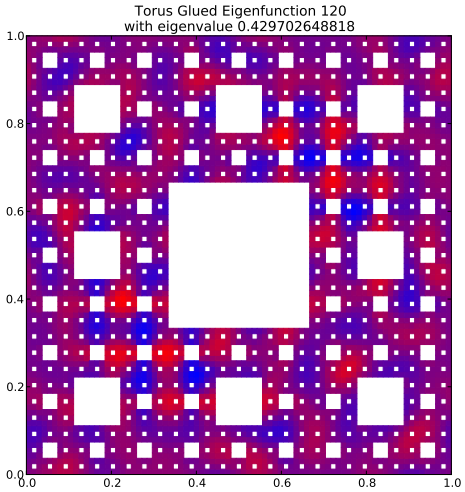


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.17984060412$
Dot Value: 0.0136542351530623

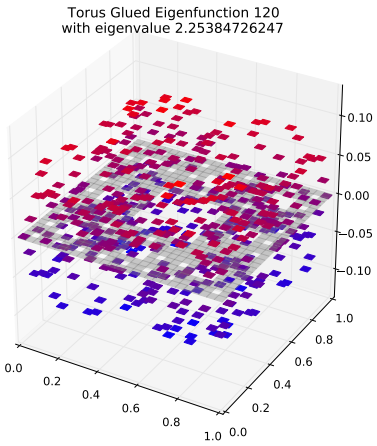
121 $M = 4$ Eigenfunction 120

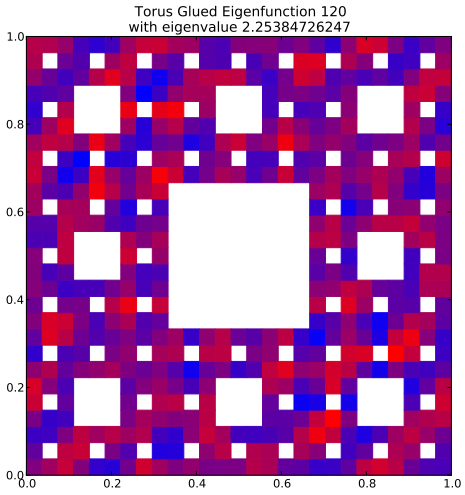
$M = 4$ Eigenfunction 120 has eigenvalue 0.429702648818





Compare to $m = 3$ eigenspace with eigenvalue 2.25384726247
(Note: Eigenspace Dimension > 1)

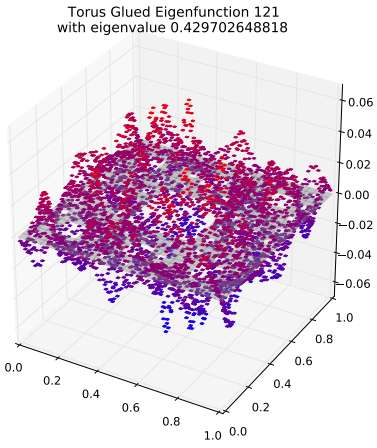


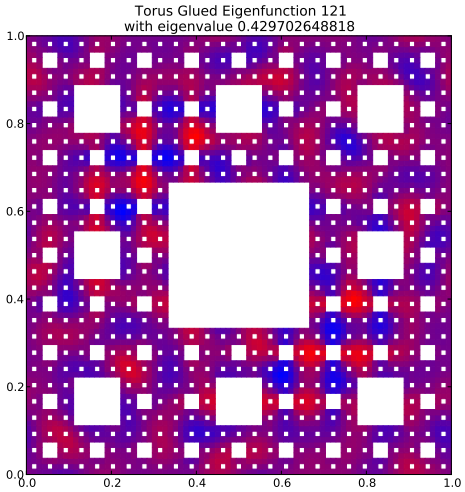


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.190652958598$
Dot Value: 0.5121929497498976

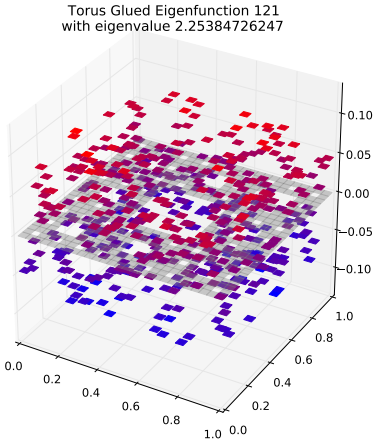
122 $M = 4$ Eigenfunction 121

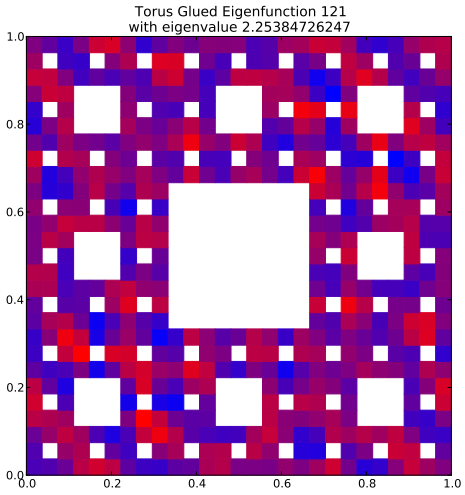
$M = 4$ Eigenfunction 121 has eigenvalue 0.429702648818





Compare to $m = 3$ eigenspace with eigenvalue 2.25384726247
(Note: Eigenspace Dimension > 1)

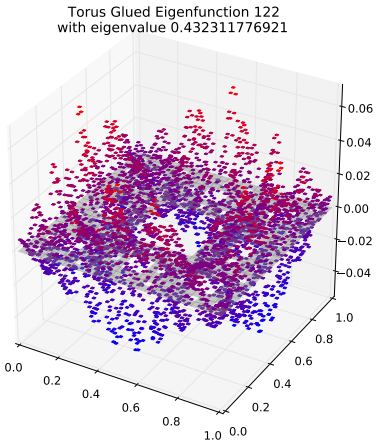


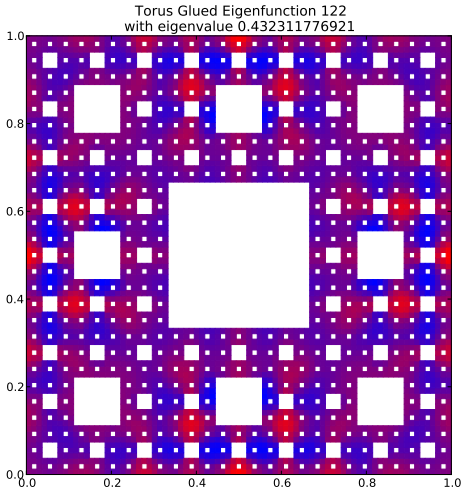


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.190652958598$
Dot Value: 0.5121929497498998

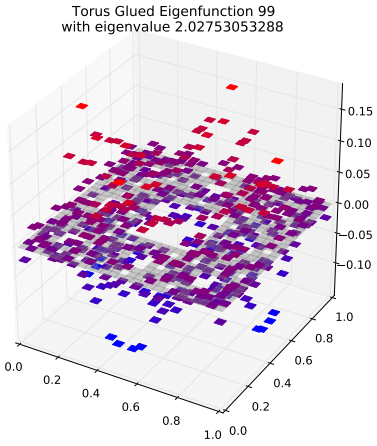
123 $M = 4$ Eigenfunction 122

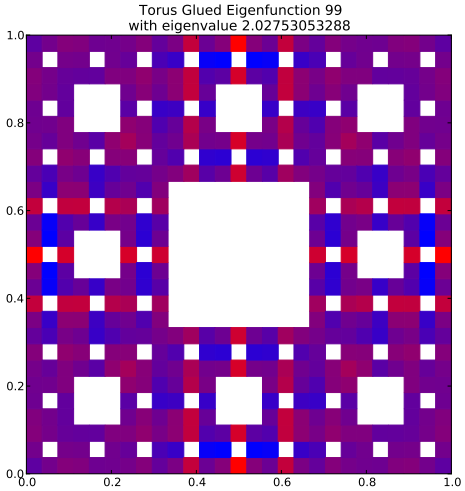
$M = 4$ Eigenfunction 122 has eigenvalue 0.432311776921





Compare to $m = 3$ eigenspace with eigenvalue 2.02753053288

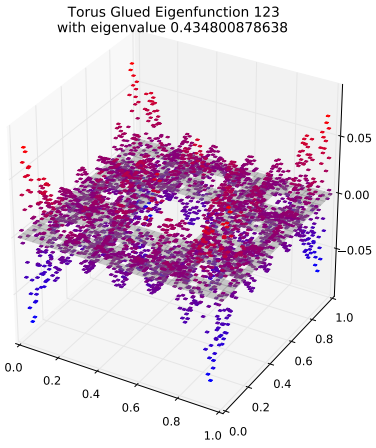


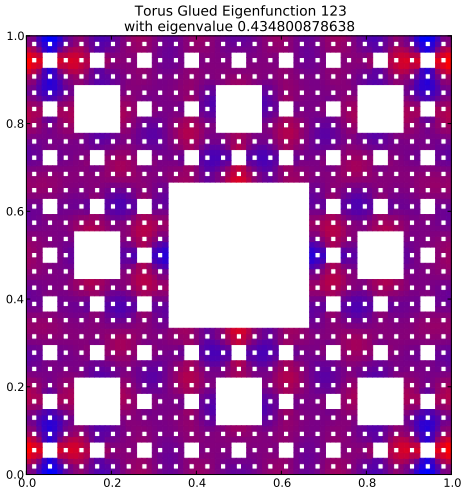


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.213220846695$
Dot Value: 0.24296672298225042

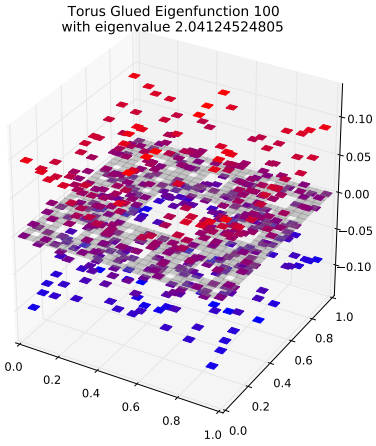
124 $M = 4$ Eigenfunction 123

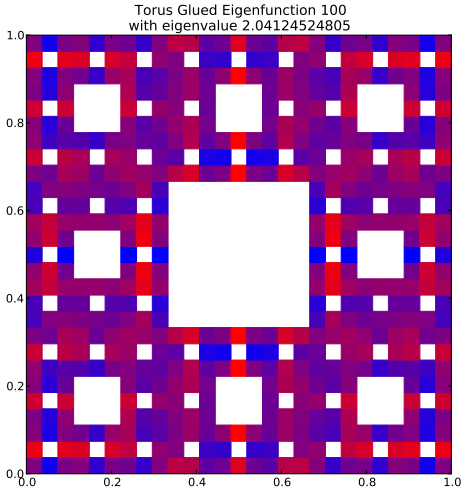
$M = 4$ Eigenfunction 123 has eigenvalue 0.434800878638





Compare to $m = 3$ eigenspace with eigenvalue 2.04124524805

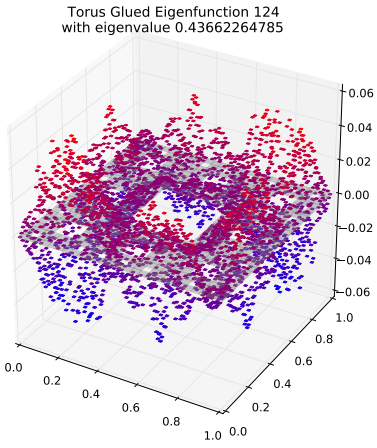


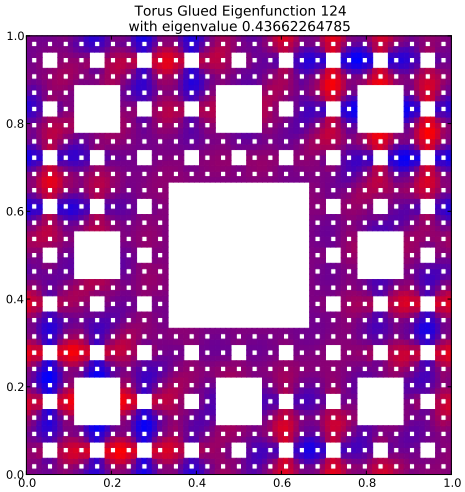


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.213007662383$
Dot Value: 0.33996118472818093

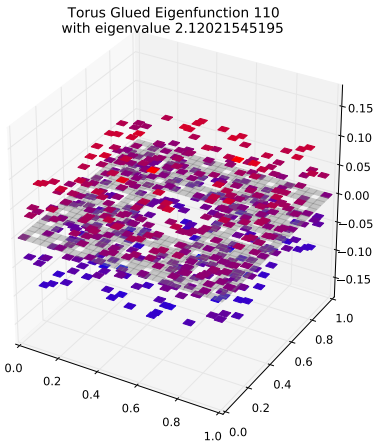
125 $M = 4$ Eigenfunction 124

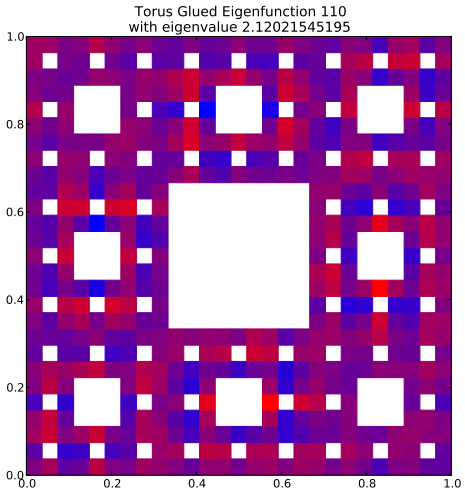
$M = 4$ Eigenfunction 124 has eigenvalue 0.43662264785





Compare to $m = 3$ eigenspace with eigenvalue 2.12021545195
(Note: Eigenspace Dimension > 1)

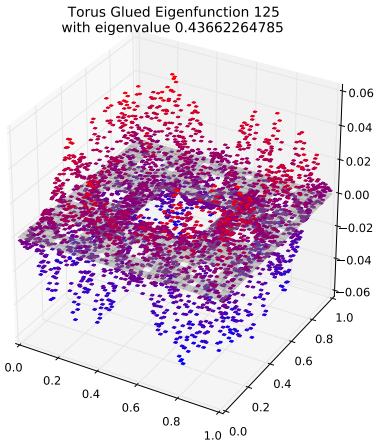


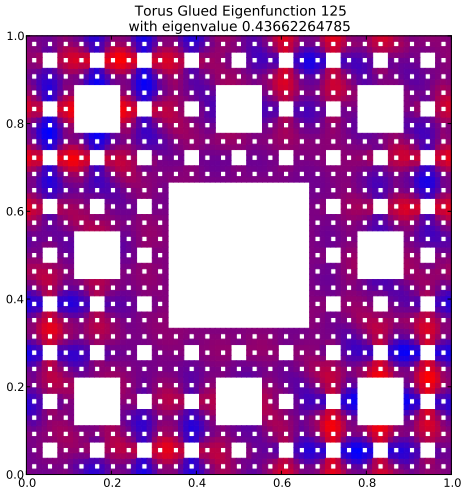


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.205933150543$
Dot Value: 0.4557564464120458

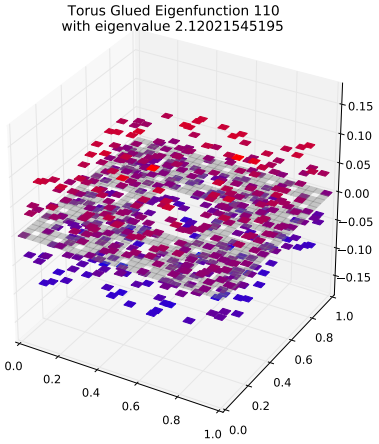
126 $M = 4$ Eigenfunction 125

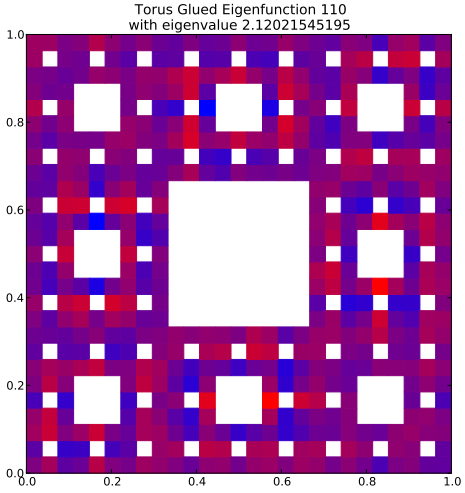
$M = 4$ Eigenfunction 125 has eigenvalue 0.43662264785





Compare to $m = 3$ eigenspace with eigenvalue 2.12021545195
(Note: Eigenspace Dimension > 1)

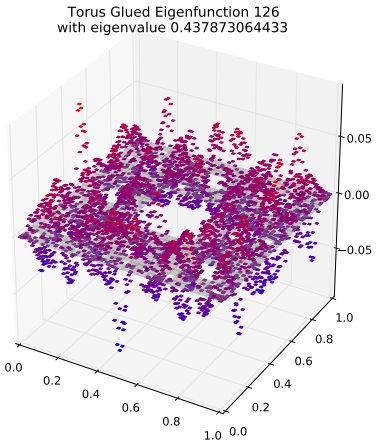


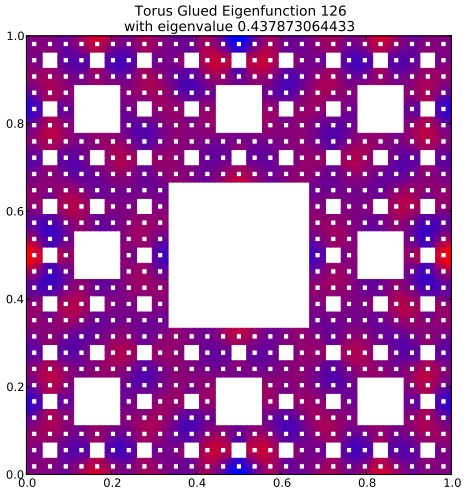


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.205933150543$
Dot Value: 0.45575644641205226

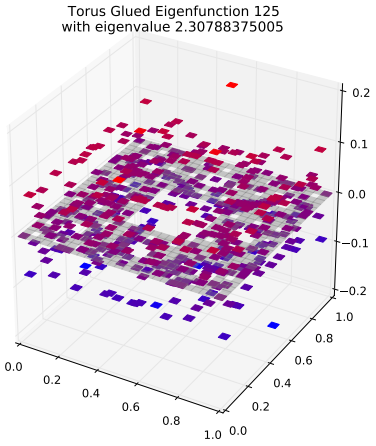
127 $M = 4$ Eigenfunction 126

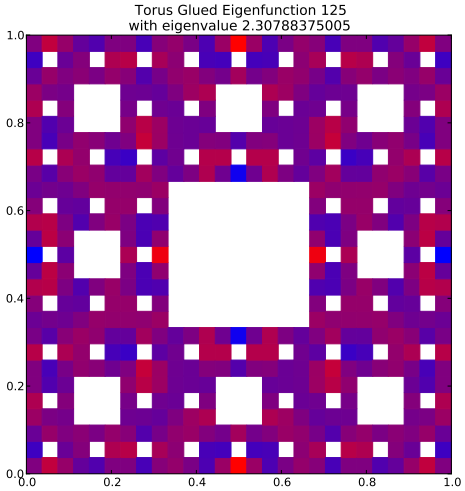
$M = 4$ Eigenfunction 126 has eigenvalue 0.437873064433





Compare to $m = 3$ eigenspace with eigenvalue 2.30788375005

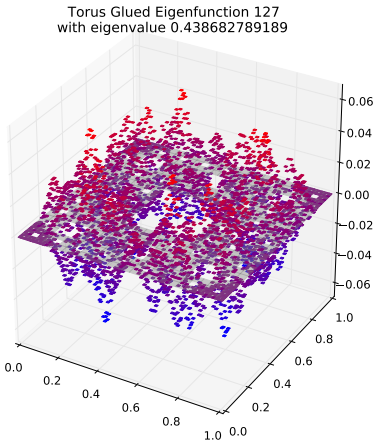


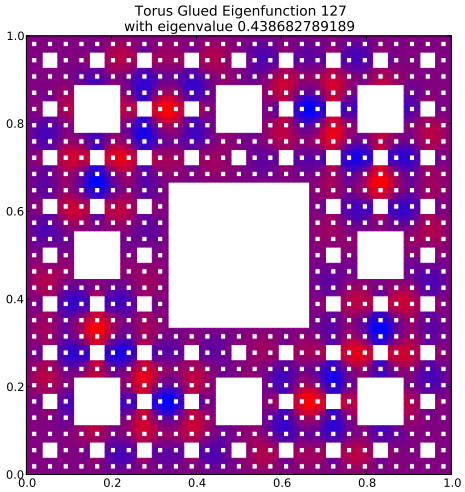


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.189729254961$
Dot Value: 0.17306031807319877

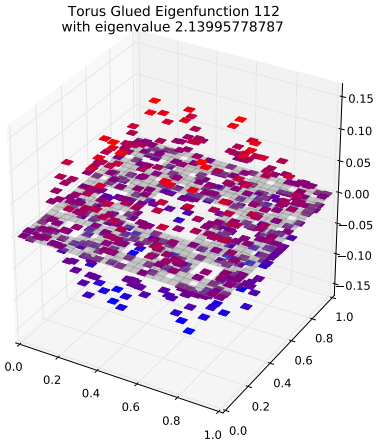
128 $M = 4$ Eigenfunction 127

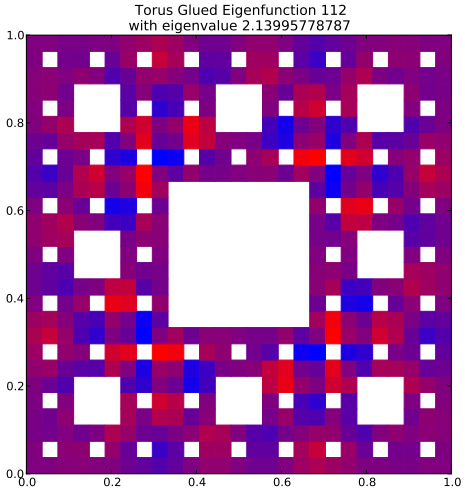
$M = 4$ Eigenfunction 127 has eigenvalue 0.438682789189





Compare to $m = 3$ eigenspace with eigenvalue 2.13995778787

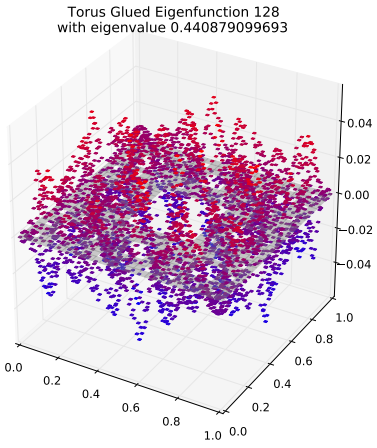


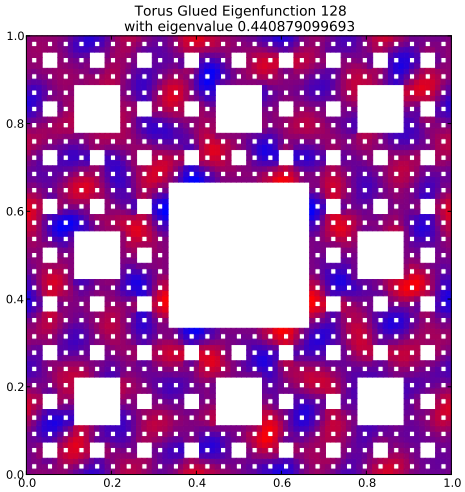


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.204996001171$
Dot Value: 0.4329677394408593

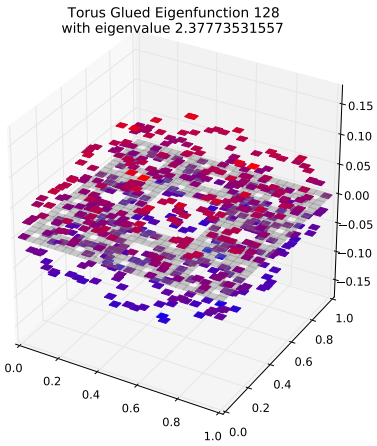
129 $M = 4$ Eigenfunction 128

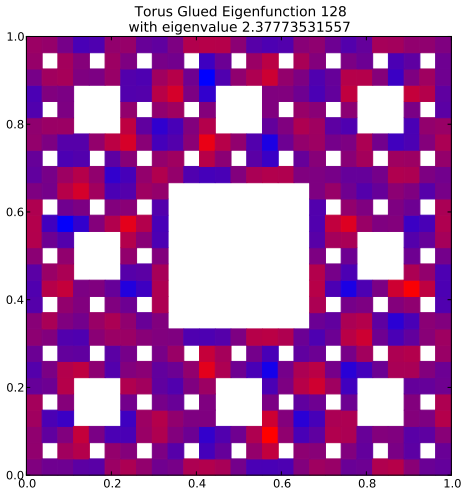
$M = 4$ Eigenfunction 128 has eigenvalue 0.440879099693





Compare to $m = 3$ eigenspace with eigenvalue 2.37773531557
(Note: Eigenspace Dimension > 1)

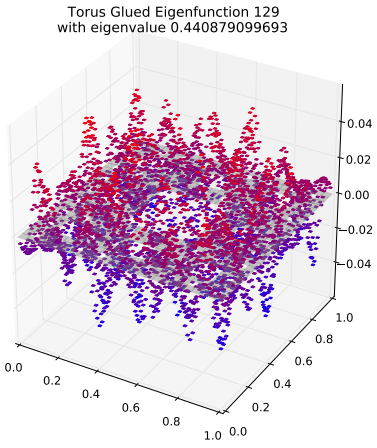


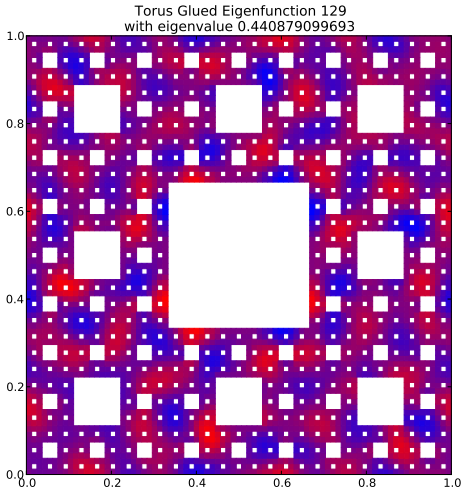


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.185419755011$
Dot Value: 0.14076231138569495

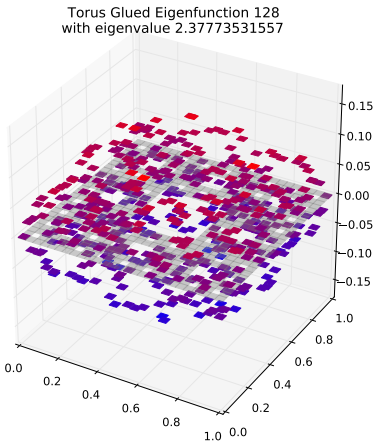
130 $M = 4$ Eigenfunction 129

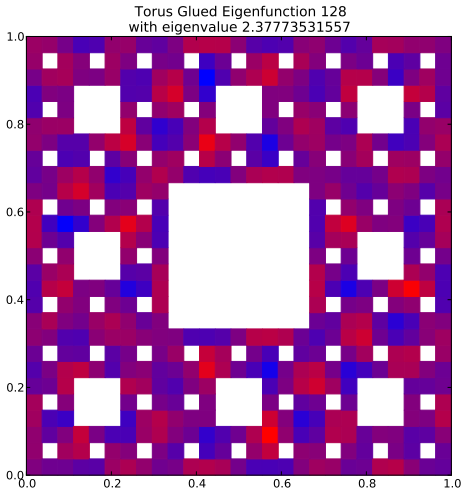
$M = 4$ Eigenfunction 129 has eigenvalue 0.440879099693





Compare to $m = 3$ eigenspace with eigenvalue 2.37773531557
(Note: Eigenspace Dimension > 1)

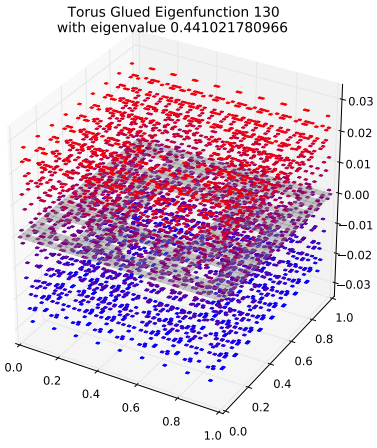


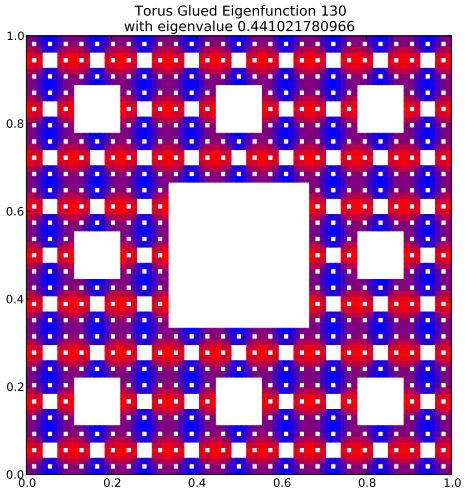


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.185419755011$
Dot Value: 0.14076231138568163

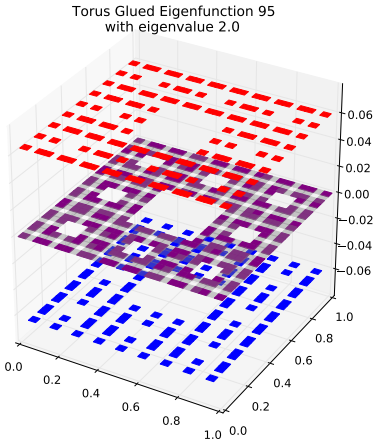
131 $M = 4$ Eigenfunction 130

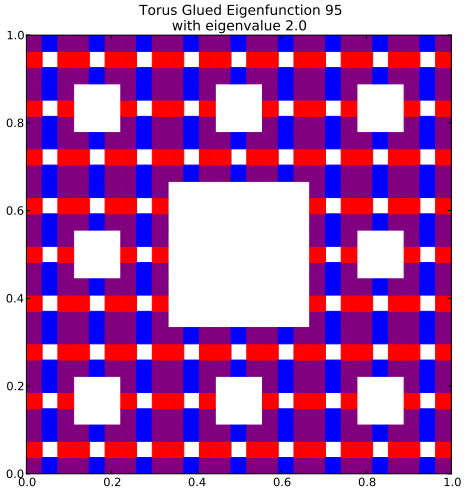
$M = 4$ Eigenfunction 130 has eigenvalue 0.441021780966





Compare to $m = 3$ eigenspace with eigenvalue 2.0

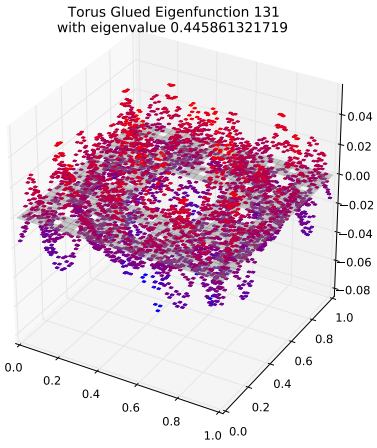


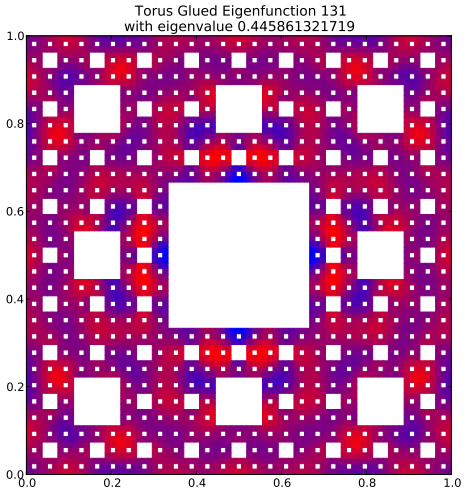


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.220510890483$
Dot Value: 0.0

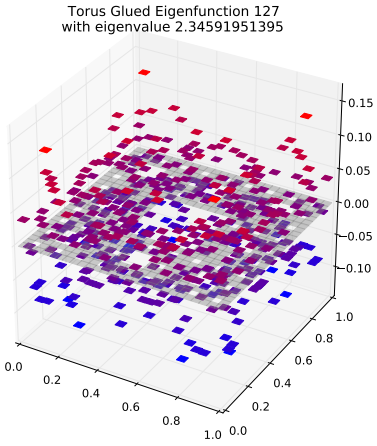
132 $M = 4$ Eigenfunction 131

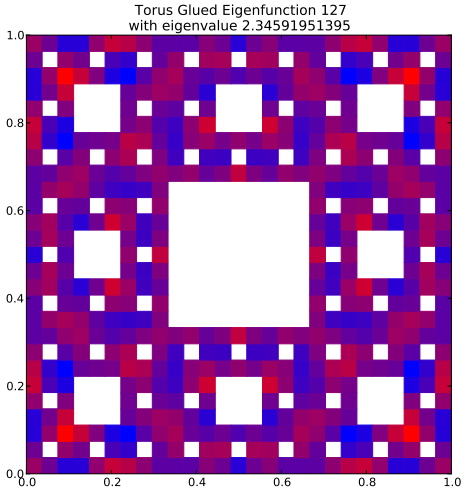
$M = 4$ Eigenfunction 131 has eigenvalue 0.445861321719





Compare to $m = 3$ eigenspace with eigenvalue 2.34591951395

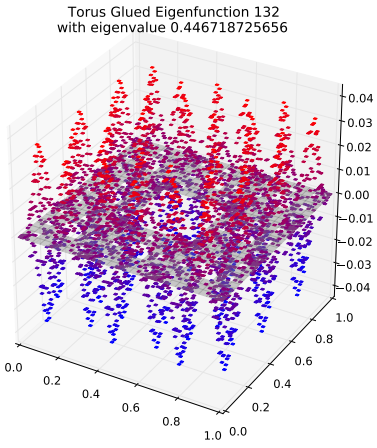


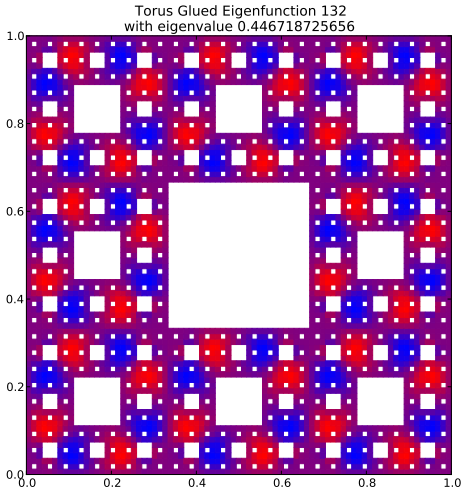


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.190058234764$
Dot Value: 0.17232777508582753

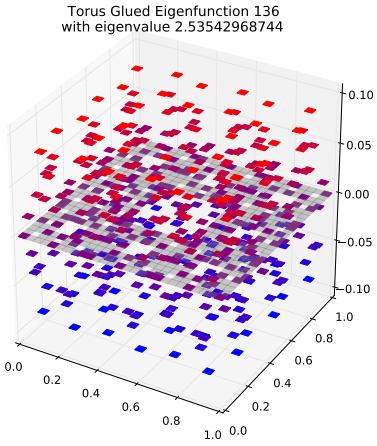
133 $M = 4$ Eigenfunction 132

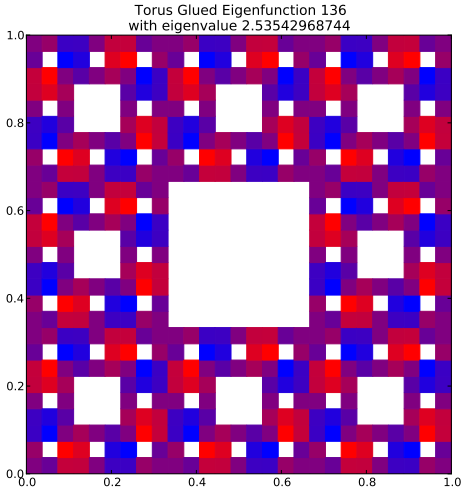
$M = 4$ Eigenfunction 132 has eigenvalue 0.446718725656





Compare to $m = 3$ eigenspace with eigenvalue 2.53542968744

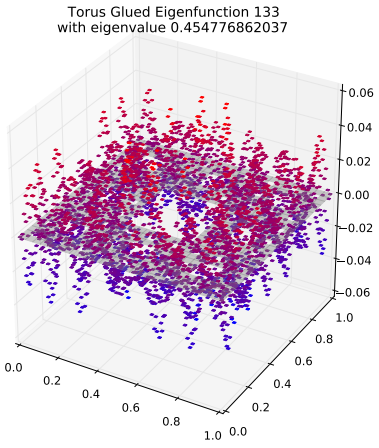


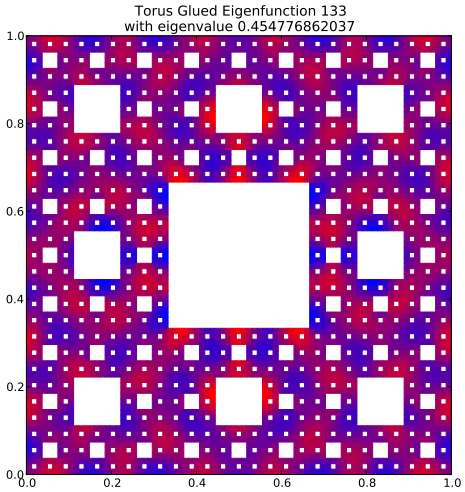


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.176190539958$
Dot Value: 0.004999943466274859

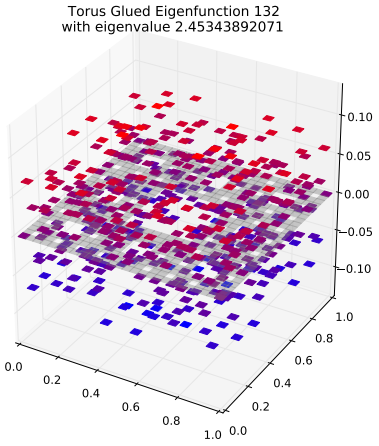
134 $M = 4$ Eigenfunction 133

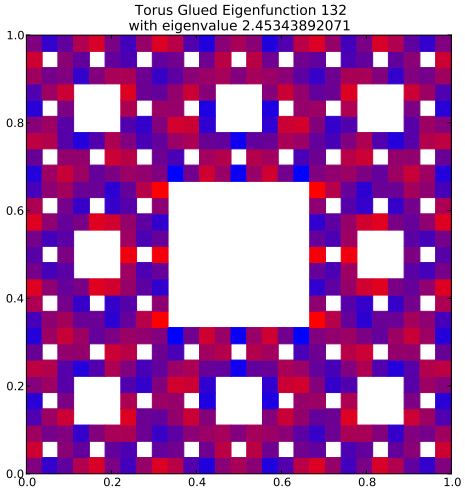
$M = 4$ Eigenfunction 133 has eigenvalue 0.454776862037





Compare to $m = 3$ eigenspace with eigenvalue 2.45343892071

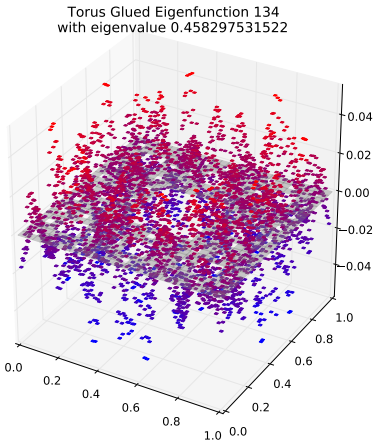


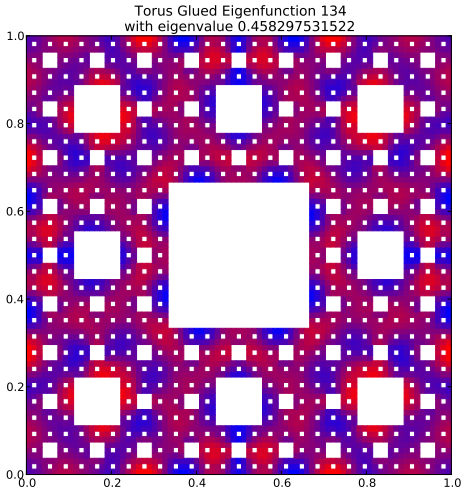


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.185363025832$
Dot Value: 0.06287660199009404

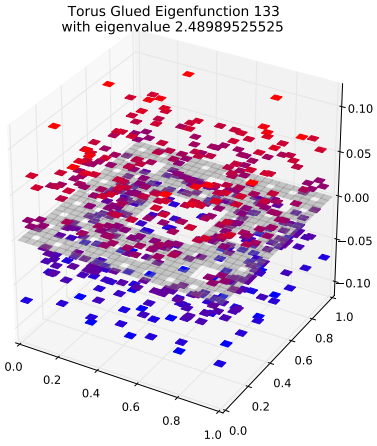
135 $M = 4$ Eigenfunction 134

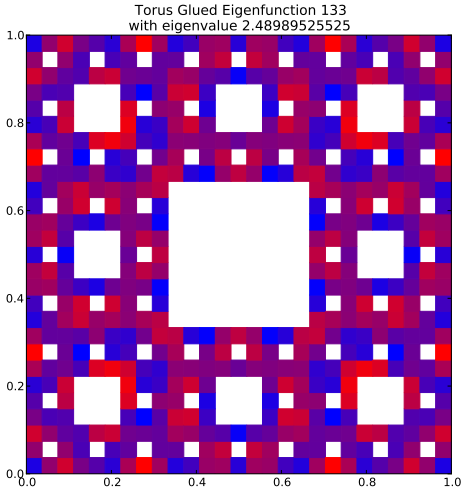
$M = 4$ Eigenfunction 134 has eigenvalue 0.458297531522





Compare to $m = 3$ eigenspace with eigenvalue 2.48989525525

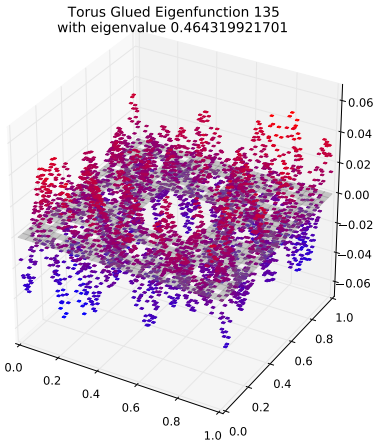


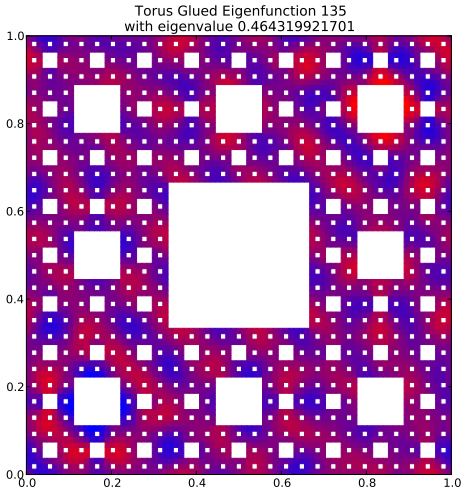


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.184062976366$
Dot Value: 0.08654700753638023

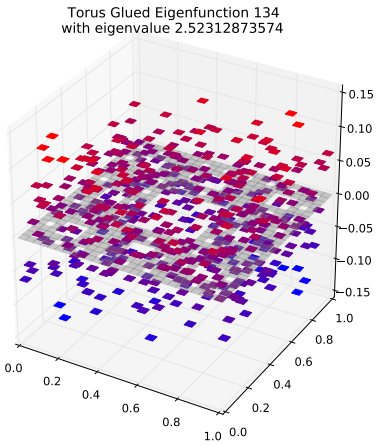
136 $M = 4$ Eigenfunction 135

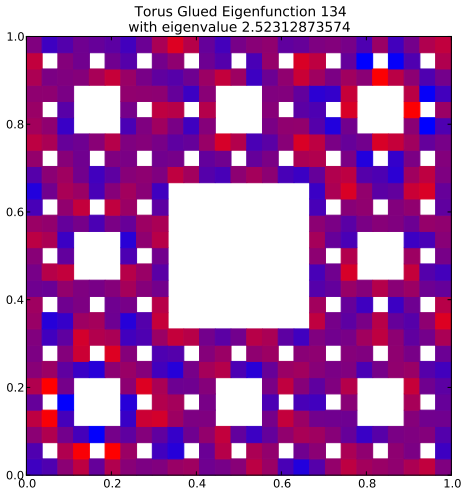
$M = 4$ Eigenfunction 135 has eigenvalue 0.464319921701





Compare to $m = 3$ eigenspace with eigenvalue 2.52312873574
(Note: Eigenspace Dimension > 1)

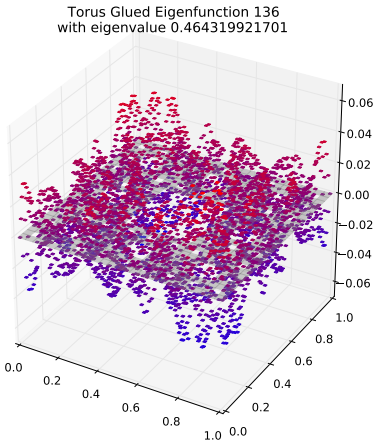


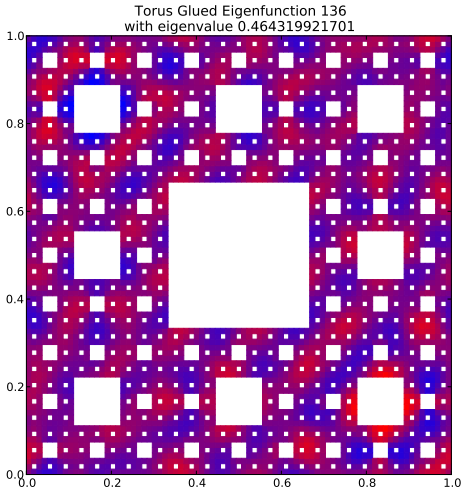


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.184025458203$
Dot Value: 0.060943108073085894

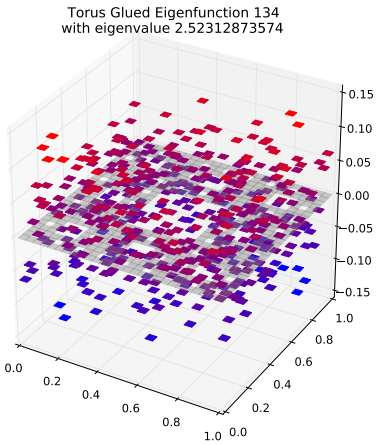
137 $M = 4$ Eigenfunction 136

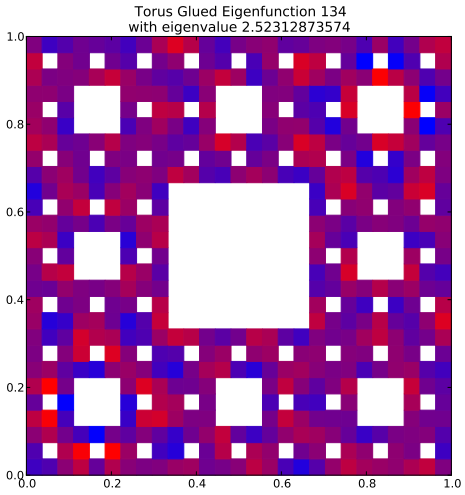
$M = 4$ Eigenfunction 136 has eigenvalue 0.464319921701





Compare to $m = 3$ eigenspace with eigenvalue 2.52312873574
(Note: Eigenspace Dimension > 1)

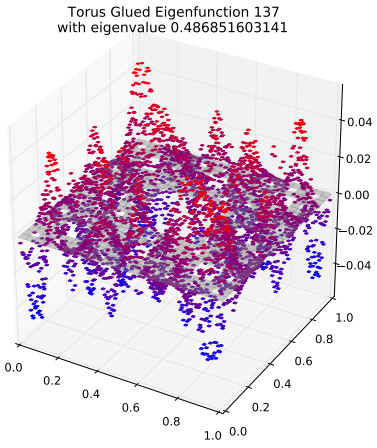


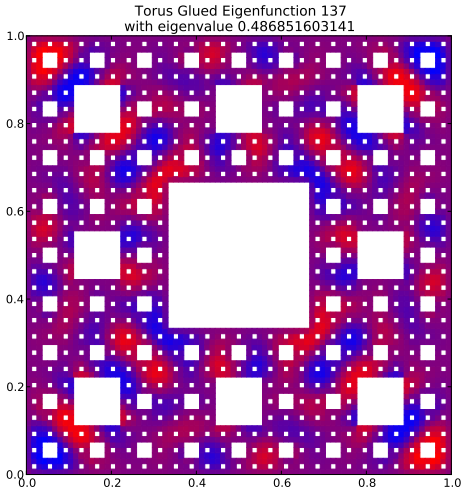


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.184025458203$
Dot Value: 0.06094310807308845

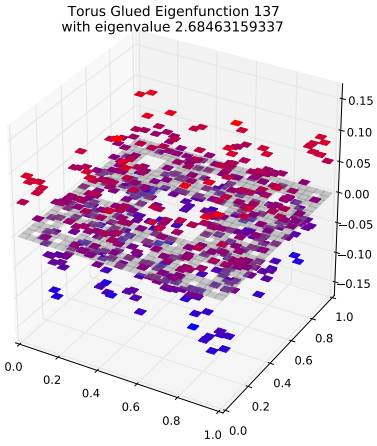
138 $M = 4$ Eigenfunction 137

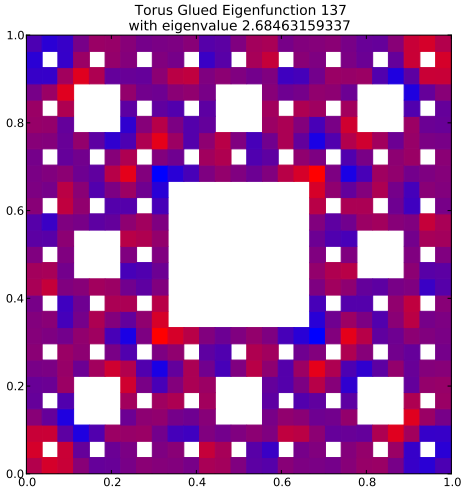
$M = 4$ Eigenfunction 137 has eigenvalue 0.486851603141





Compare to $m = 3$ eigenspace with eigenvalue 2.68463159337

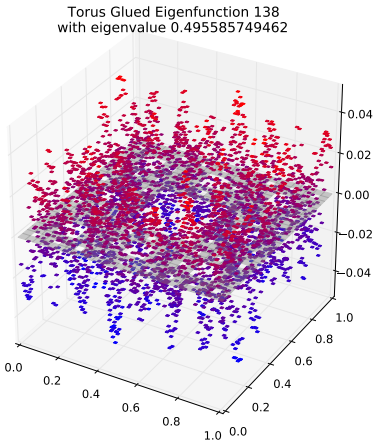


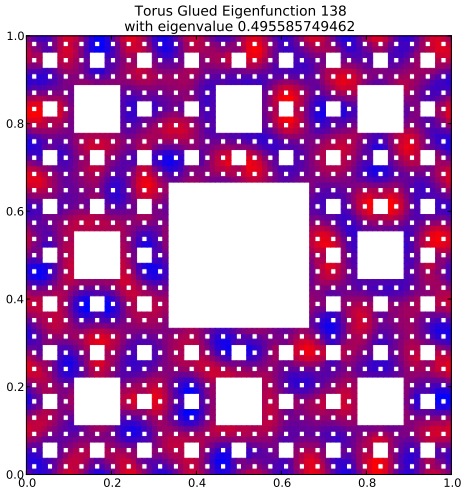


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.181347639782$
Dot Value: 0.06611927927110994

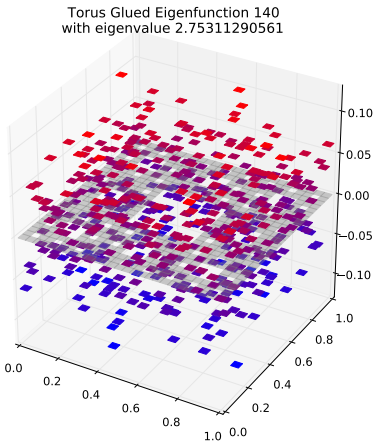
139 $M = 4$ Eigenfunction 138

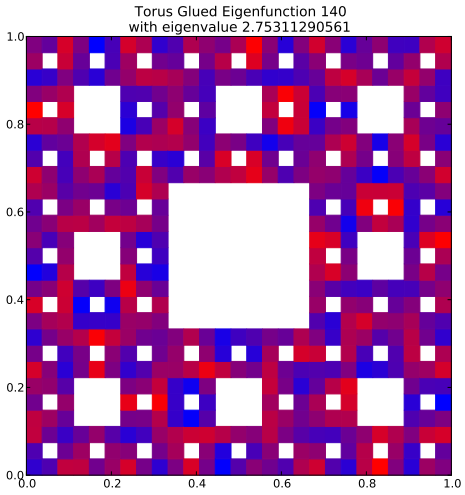
$M = 4$ Eigenfunction 138 has eigenvalue 0.495585749462





Compare to $m = 3$ eigenspace with eigenvalue 2.75311290561
(Note: Eigenspace Dimension > 1)

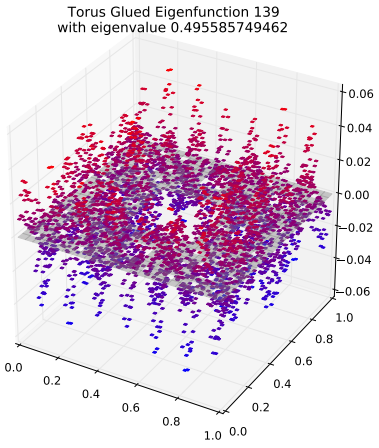


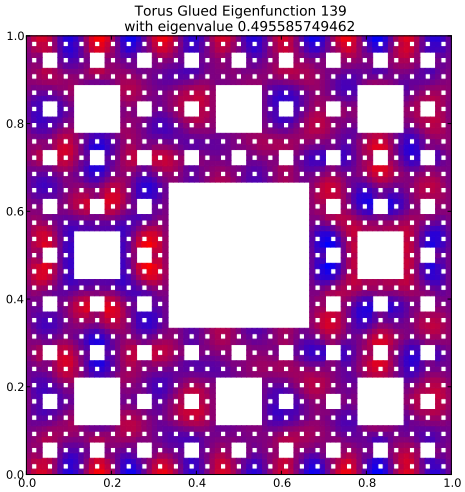


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.180009235528$
Dot Value: 0.07209063322529663

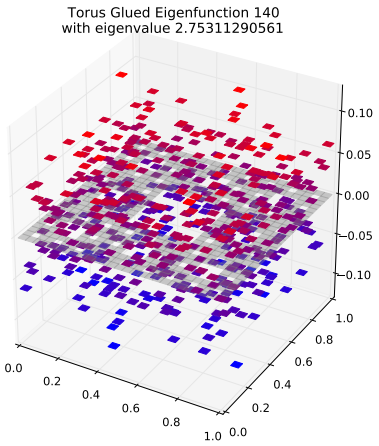
140 $M = 4$ Eigenfunction 139

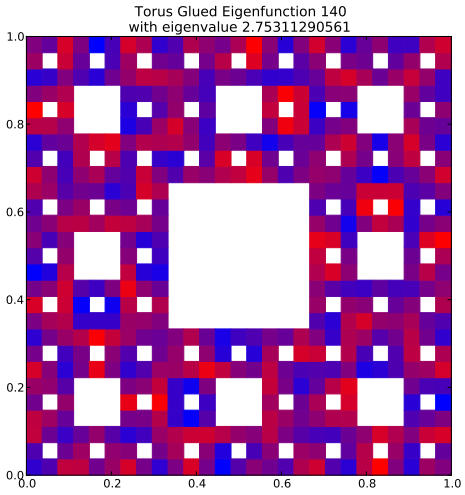
$M = 4$ Eigenfunction 139 has eigenvalue 0.495585749462





Compare to $m = 3$ eigenspace with eigenvalue 2.75311290561
(Note: Eigenspace Dimension > 1)

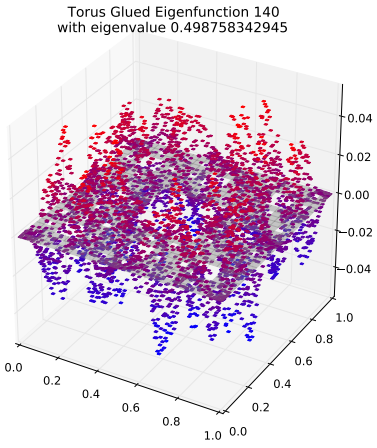


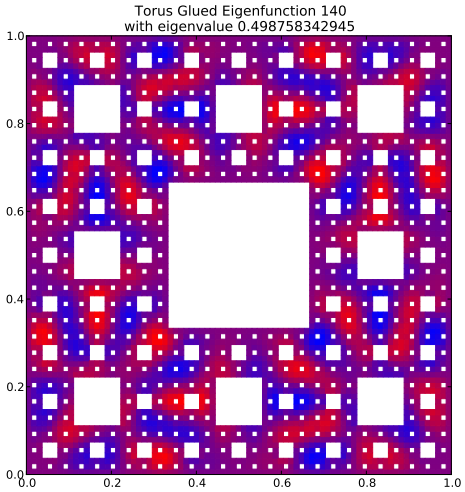


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.180009235528$
Dot Value: 0.07209063322528841

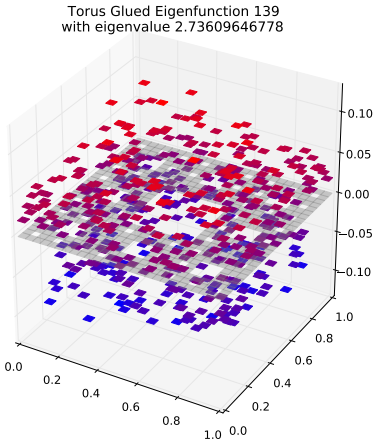
141 $M = 4$ Eigenfunction 140

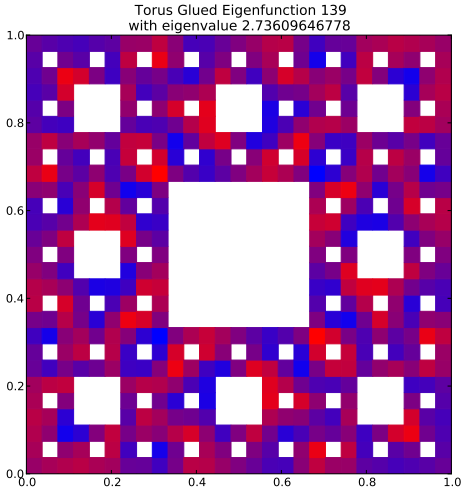
$M = 4$ Eigenfunction 140 has eigenvalue 0.498758342945





Compare to $m = 3$ eigenspace with eigenvalue 2.73609646778

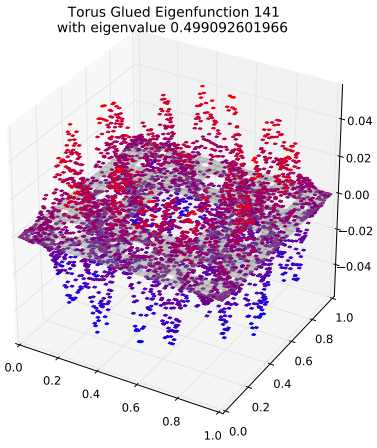


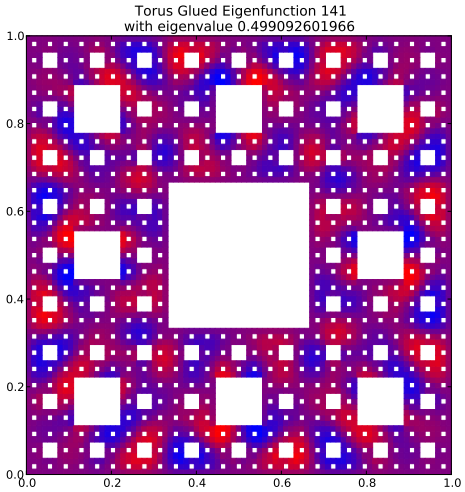


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.182288288742$
Dot Value: 0.15408771963431012

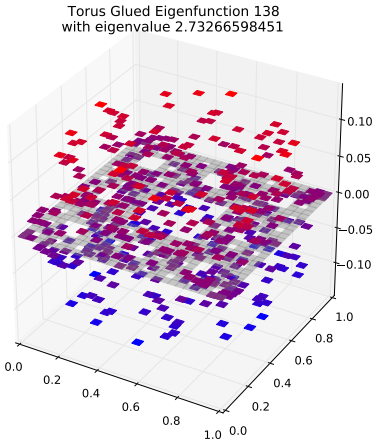
142 $M = 4$ Eigenfunction 141

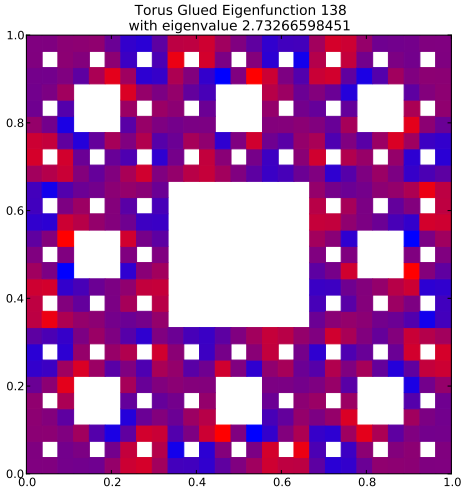
$M = 4$ Eigenfunction 141 has eigenvalue 0.499092601966





Compare to $m = 3$ eigenspace with eigenvalue 2.73266598451

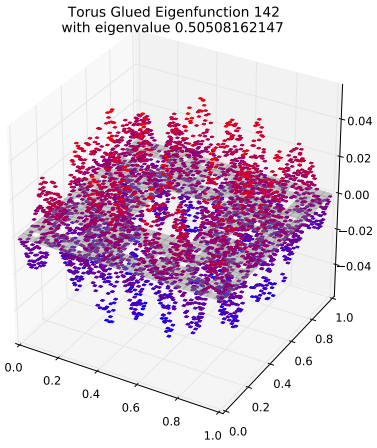


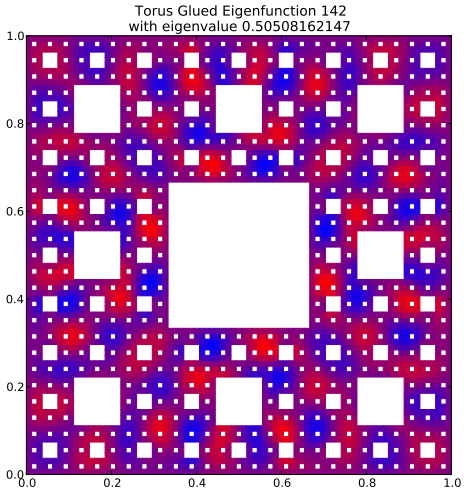


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.182639446166$
Dot Value: 0.04192305396088025

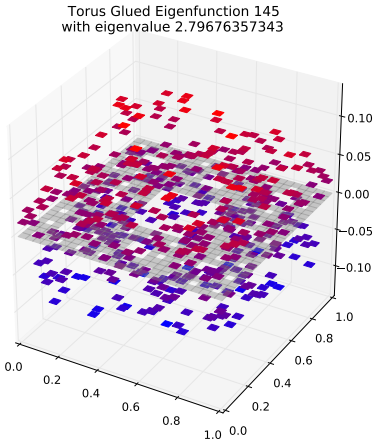
143 $M = 4$ Eigenfunction 142

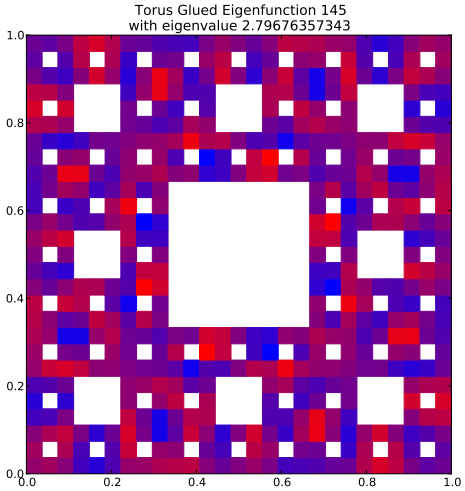
$M = 4$ Eigenfunction 142 has eigenvalue 0.50508162147





Compare to $m = 3$ eigenspace with eigenvalue 2.79676357343

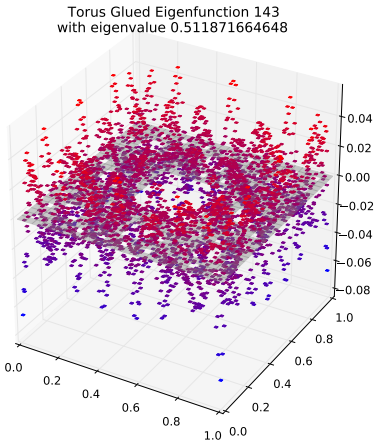


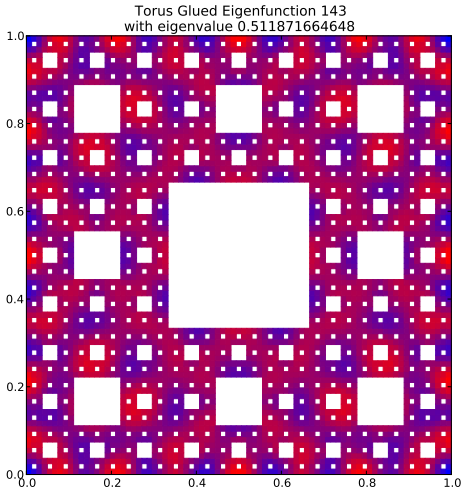


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.18059503716$
Dot Value: 0.10993032587773488

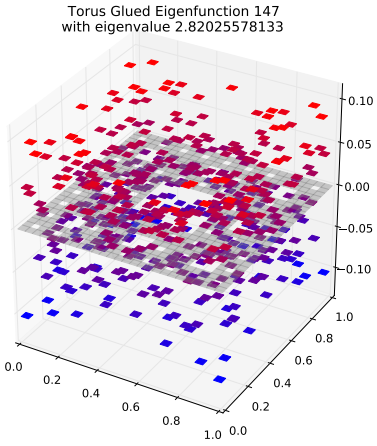
144 $M = 4$ Eigenfunction 143

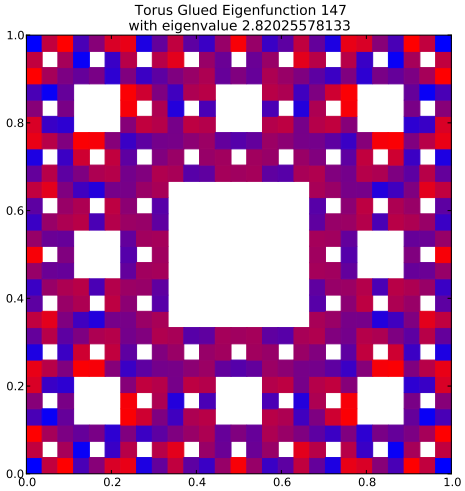
$M = 4$ Eigenfunction 143 has eigenvalue 0.511871664648





Compare to $m = 3$ eigenspace with eigenvalue 2.82025578133

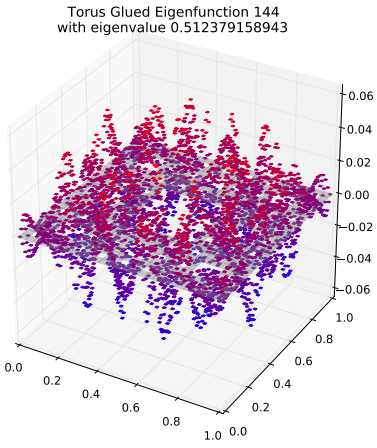


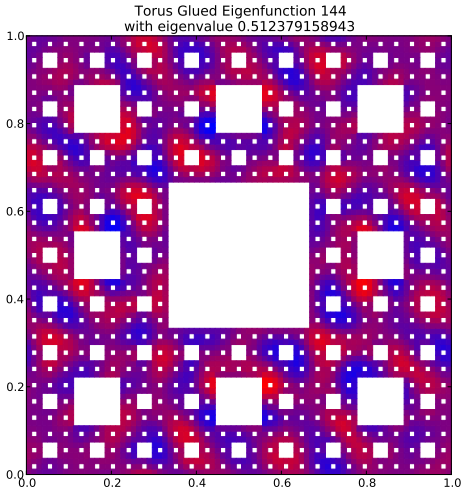


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.181498312329$
Dot Value: 0.08661378380202256

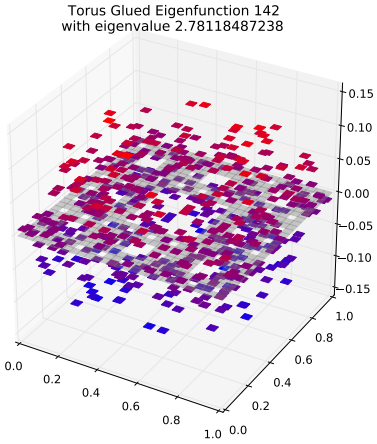
145 $M = 4$ Eigenfunction 144

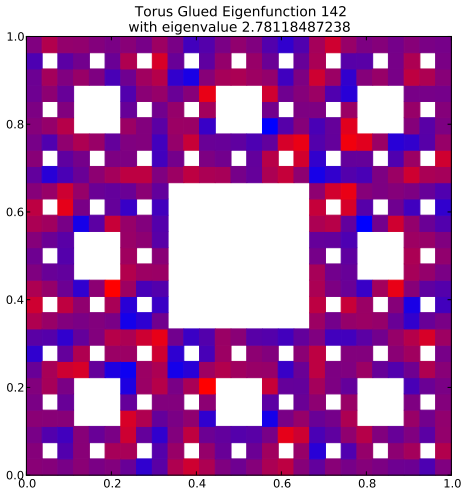
$M = 4$ Eigenfunction 144 has eigenvalue 0.512379158943





Compare to $m = 3$ eigenspace with eigenvalue 2.78118487238
(Note: Eigenspace Dimension > 1)

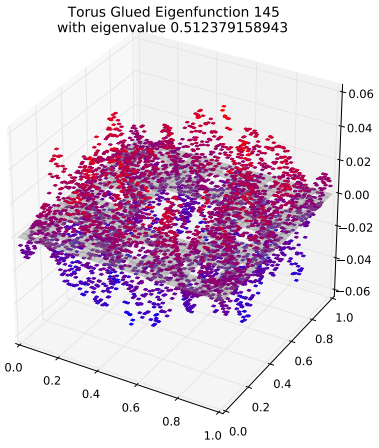


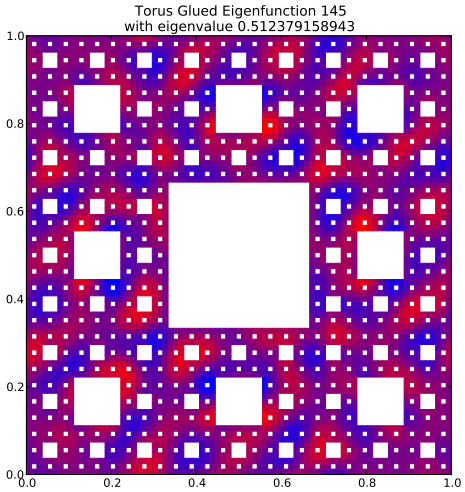


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.184230528517$
Dot Value: 0.06947023315679346

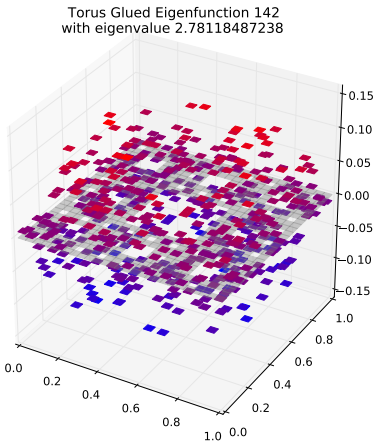
146 $M = 4$ Eigenfunction 145

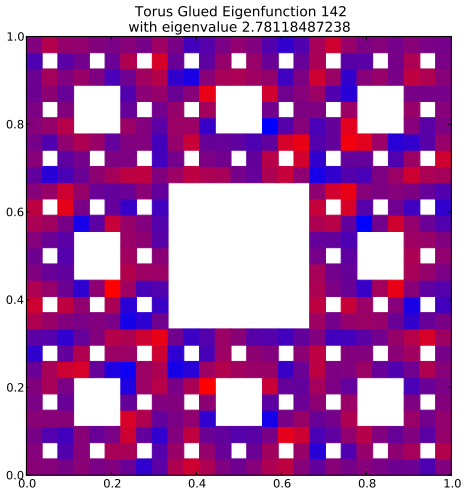
$M = 4$ Eigenfunction 145 has eigenvalue 0.512379158943





Compare to $m = 3$ eigenspace with eigenvalue 2.78118487238
(Note: Eigenspace Dimension > 1)

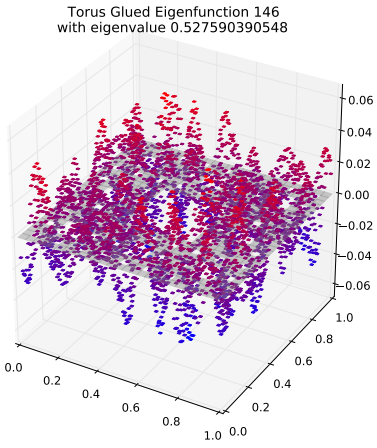


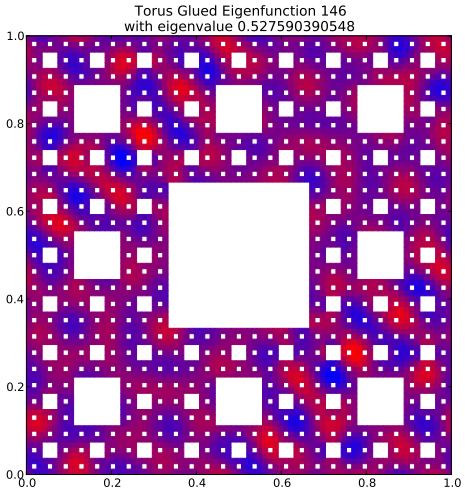


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.184230528517$
Dot Value: 0.06947023315679857

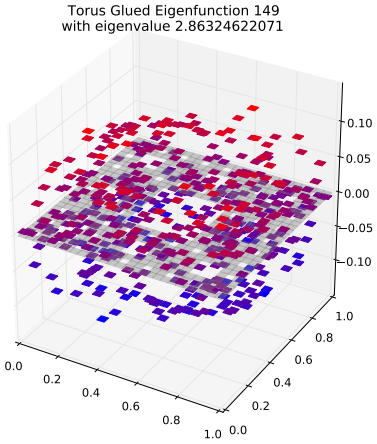
147 $M = 4$ Eigenfunction 146

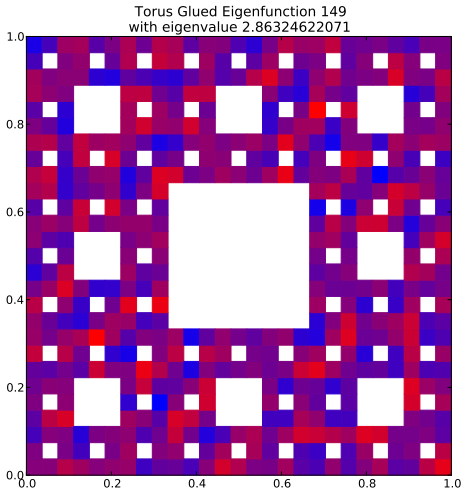
$M = 4$ Eigenfunction 146 has eigenvalue 0.527590390548





Compare to $m = 3$ eigenspace with eigenvalue 2.86324622071
(Note: Eigenspace Dimension > 1)

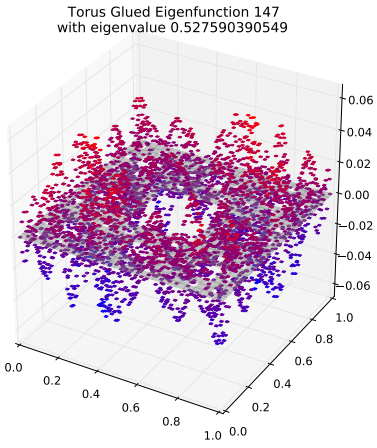


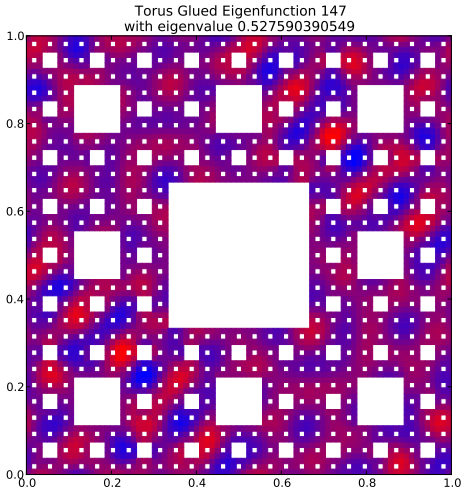


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.184263018225$
Dot Value: 0.3216421162076726

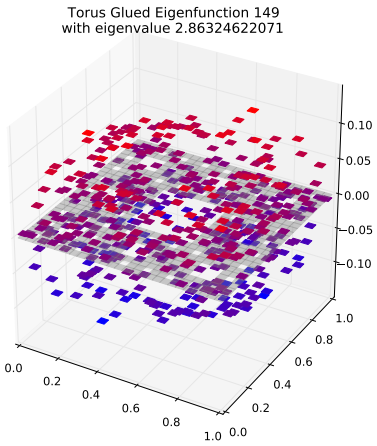
148 $M = 4$ Eigenfunction 147

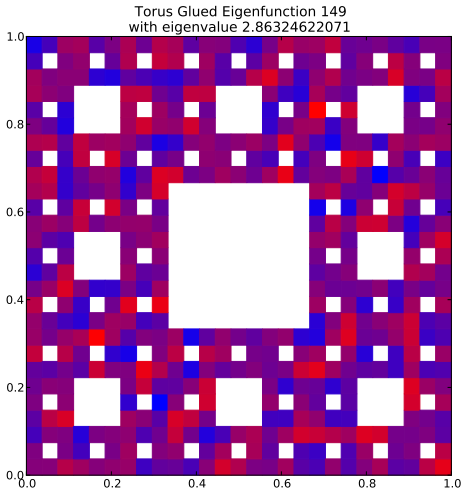
$M = 4$ Eigenfunction 147 has eigenvalue 0.527590390549





Compare to $m = 3$ eigenspace with eigenvalue 2.86324622071
(Note: Eigenspace Dimension > 1)

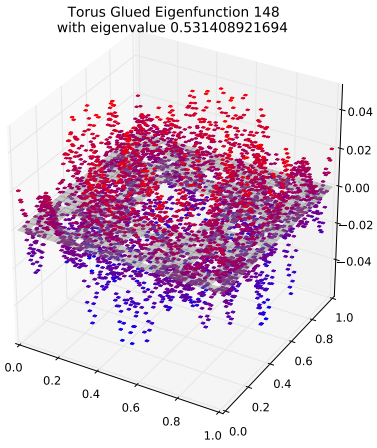


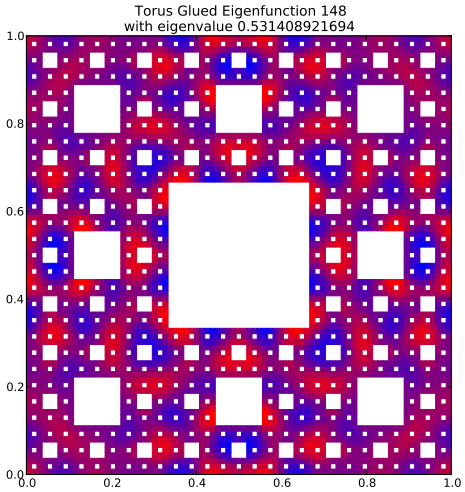


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.184263018225$
Dot Value: 0.3216421162076277

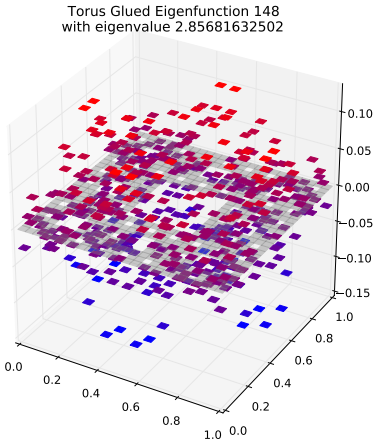
149 $M = 4$ Eigenfunction 148

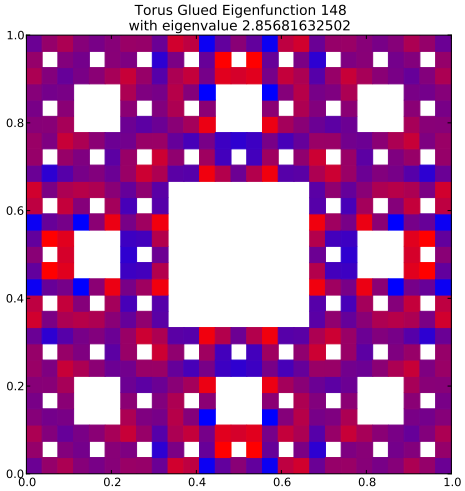
$M = 4$ Eigenfunction 148 has eigenvalue 0.531408921694





Compare to $m = 3$ eigenspace with eigenvalue 2.85681632502

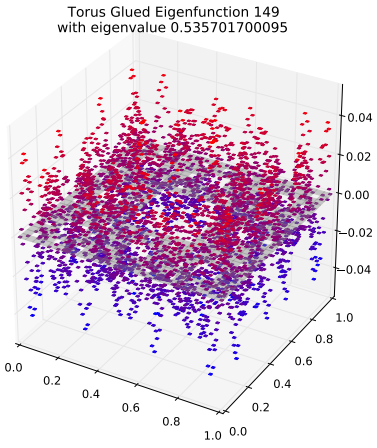


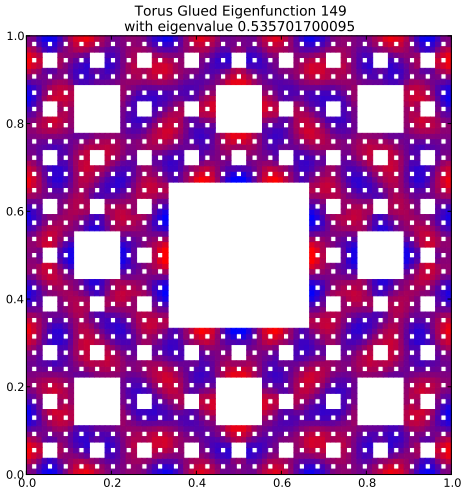


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.186014381478$
Dot Value: 0.10618494026030945

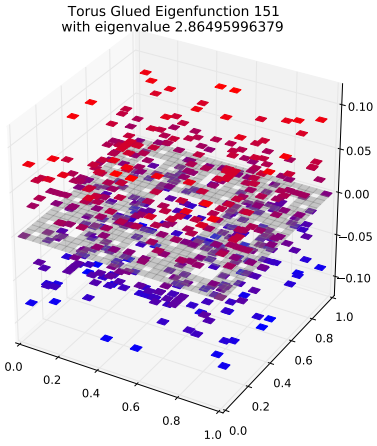
150 $M = 4$ Eigenfunction 149

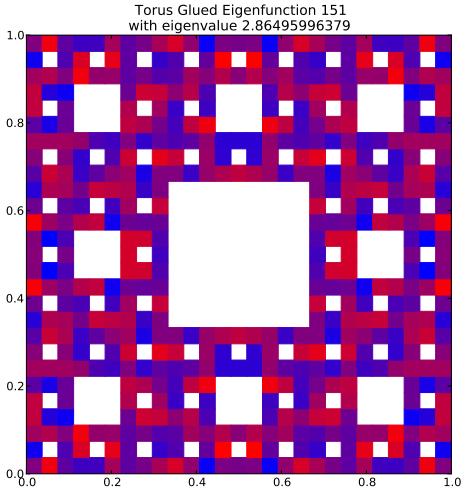
$M = 4$ Eigenfunction 149 has eigenvalue 0.535701700095





Compare to $m = 3$ eigenspace with eigenvalue 2.86495996379





Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.186984009154$
Dot Value: 0.2325743014471786