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

SPUR 2016

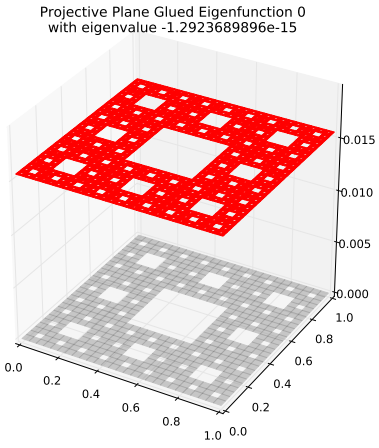
May 23, 2018

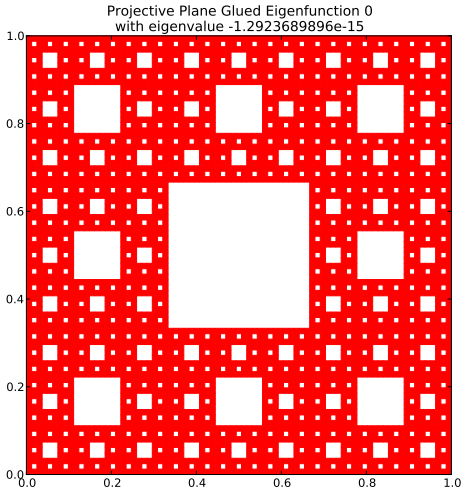
Key to Dot Value

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.

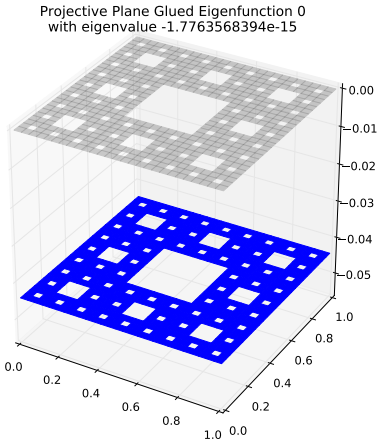
1 $M = 4$ Eigenfunction 0

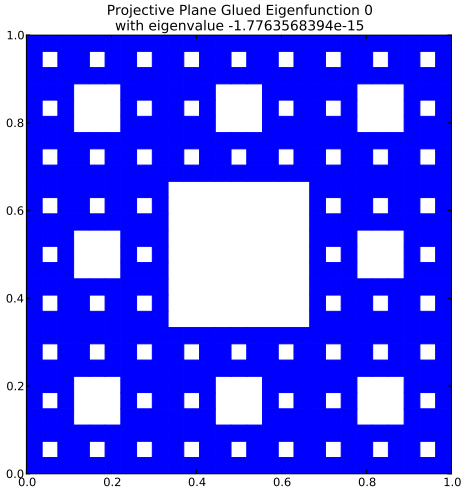
$M = 4$ Eigenfunction 0 has eigenvalue -8.76902717106e-16





Compare to $m = 3$ eigenspace with eigenvalue -1.7763568394e-15

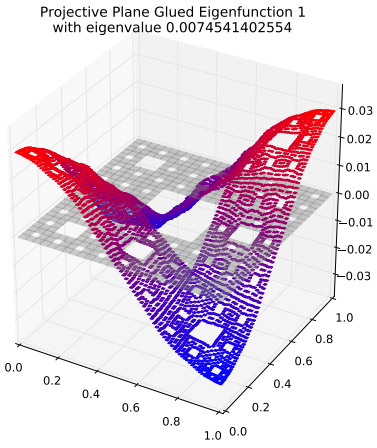


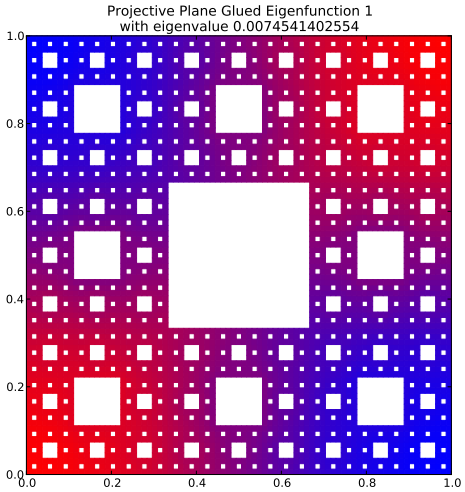


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.49365234375$
Dot Value: 2.220446049250313e-16

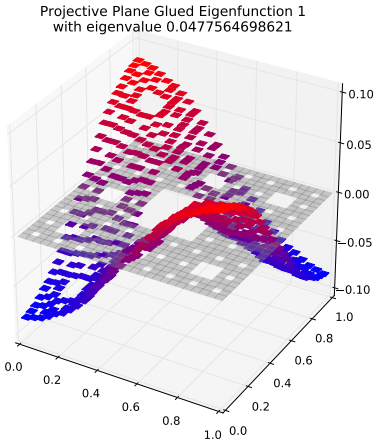
2 $M = 4$ Eigenfunction 1

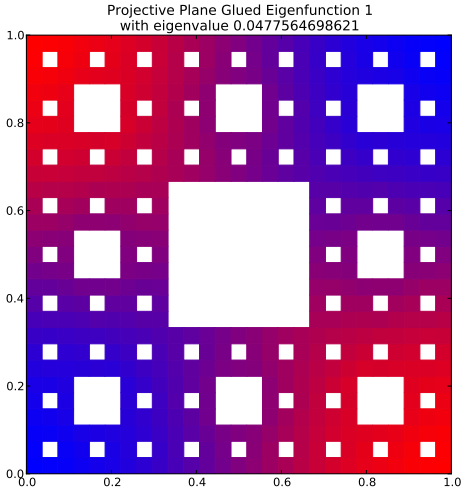
$M = 4$ Eigenfunction 1 has eigenvalue 0.0074541402554





Compare to $m = 3$ eigenspace with eigenvalue 0.0477564698621

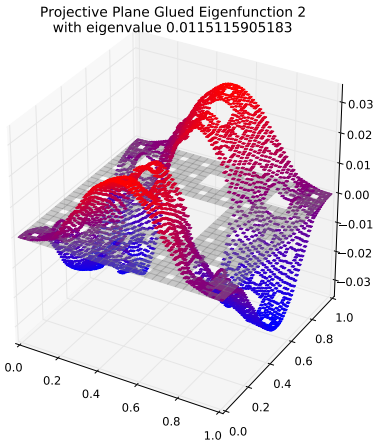


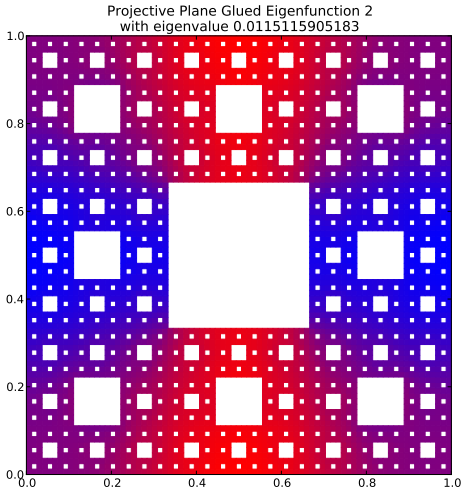


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.156086500467$
Dot Value: 1.804496179469428e-05

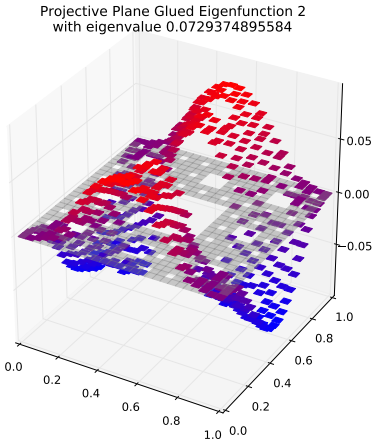
3 $M = 4$ Eigenfunction 2

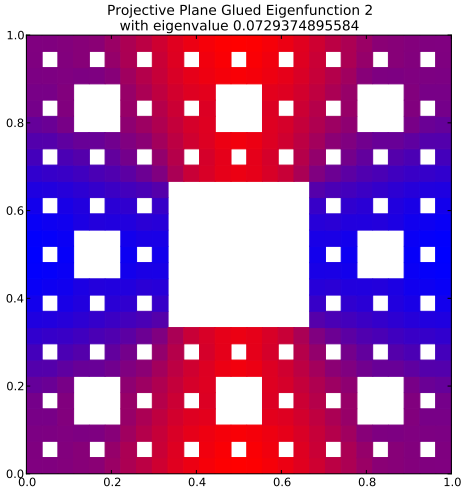
$M = 4$ Eigenfunction 2 has eigenvalue 0.0115115905183





Compare to $m = 3$ eigenspace with eigenvalue 0.0729374895584

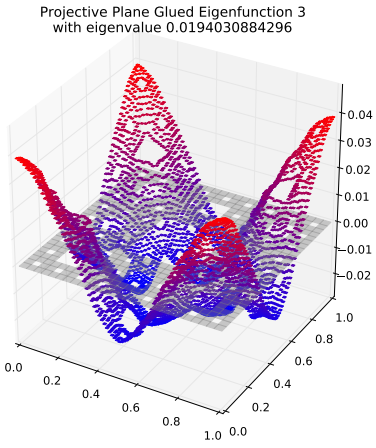


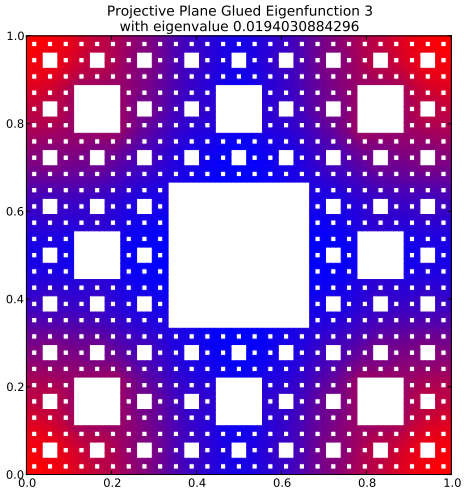


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.157828170232$
Dot Value: 2.7805761335431e-05

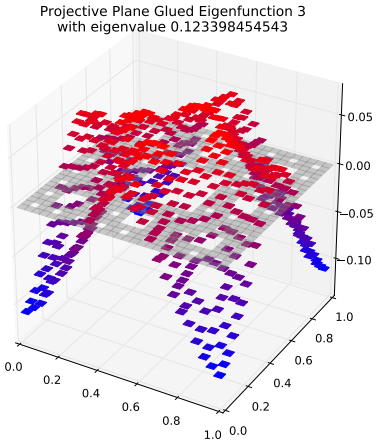
4 $M = 4$ Eigenfunction 3

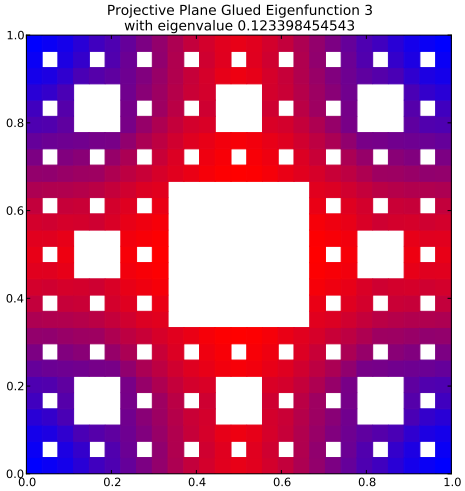
$M = 4$ Eigenfunction 3 has eigenvalue 0.0194030884296





Compare to $m = 3$ eigenspace with eigenvalue 0.123398454543

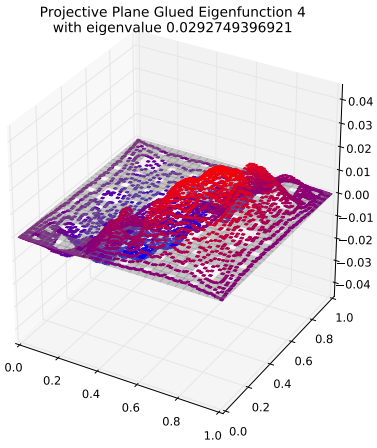


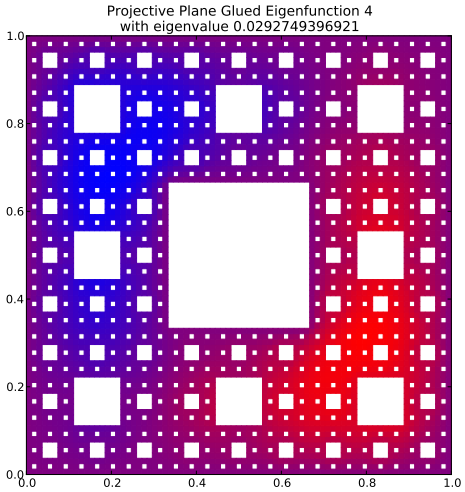


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.157239314718$
Dot Value: 8.46779048758739e-05

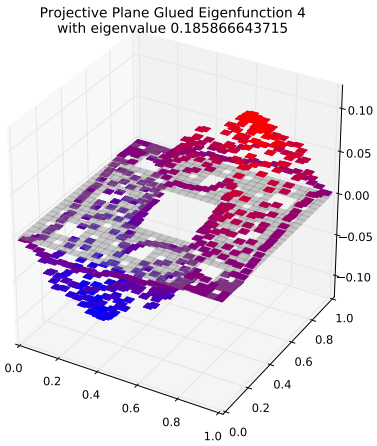
5 $M = 4$ Eigenfunction 4

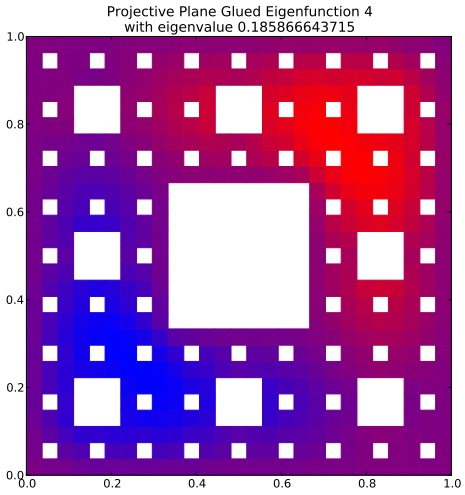
$M = 4$ Eigenfunction 4 has eigenvalue 0.0292749396921





Compare to $m = 3$ eigenspace with eigenvalue 0.185866643715
(Note: Eigenspace Dimension > 1)

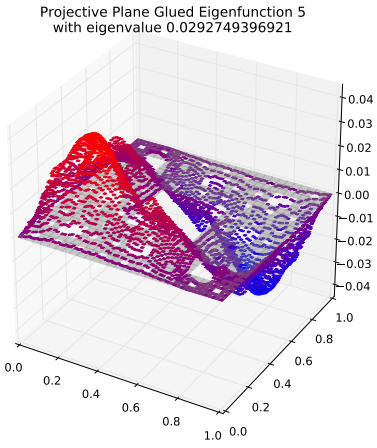


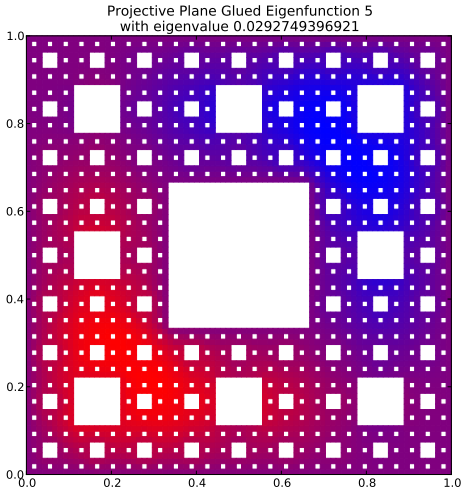


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.157505075182$
Dot Value: 0.00010780718830571967

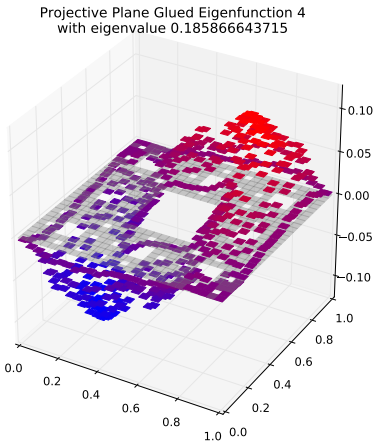
6 $M = 4$ Eigenfunction 5

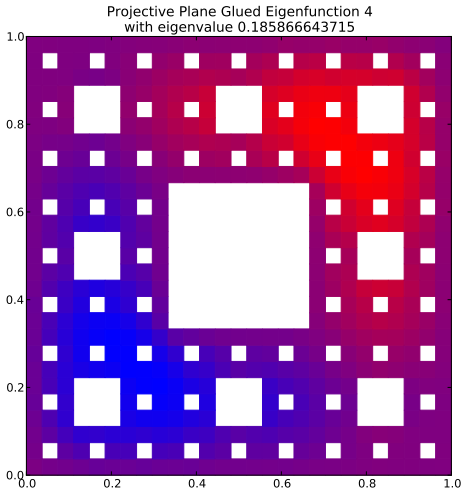
$M = 4$ Eigenfunction 5 has eigenvalue 0.0292749396921





Compare to $m = 3$ eigenspace with eigenvalue 0.185866643715
(Note: Eigenspace Dimension > 1)

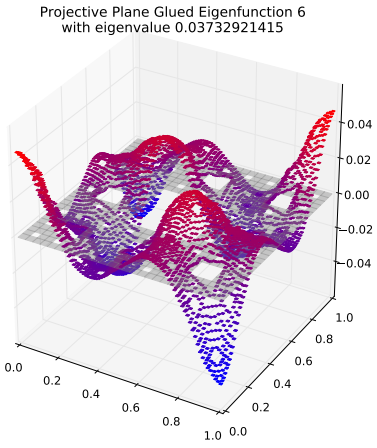


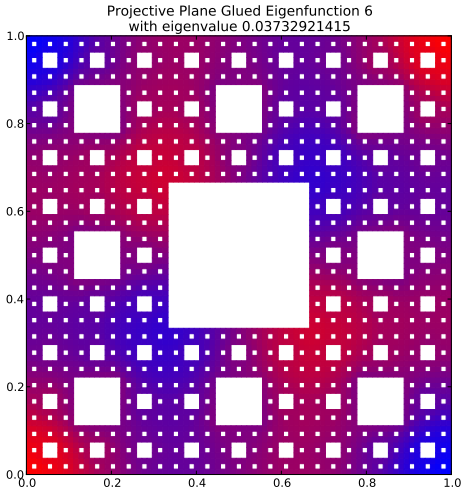


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.157505075182$
Dot Value: 0.00010780718830571967

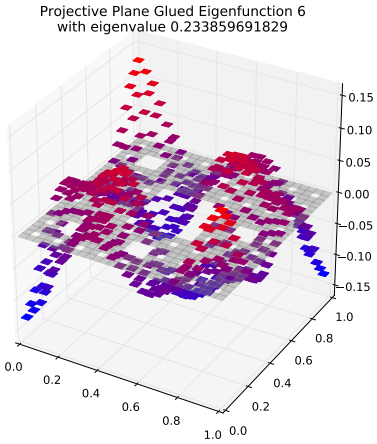
7 $M = 4$ Eigenfunction 6

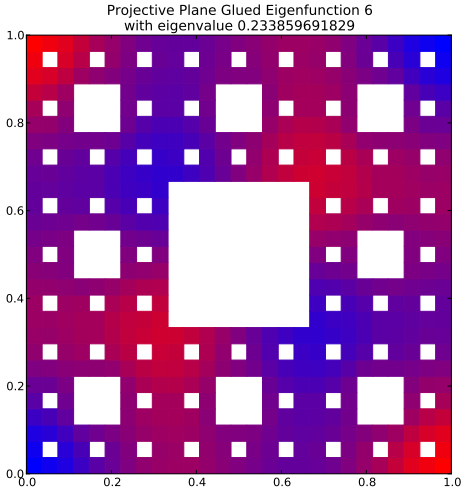
$M = 4$ Eigenfunction 6 has eigenvalue 0.0373292141501





Compare to $m = 3$ eigenspace with eigenvalue 0.233859691829

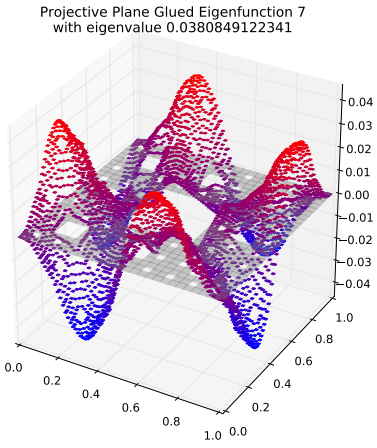


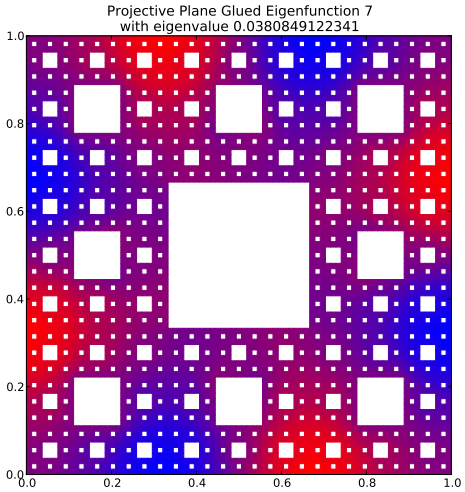


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.159622266916$
Dot Value: 0.00012213489380386022

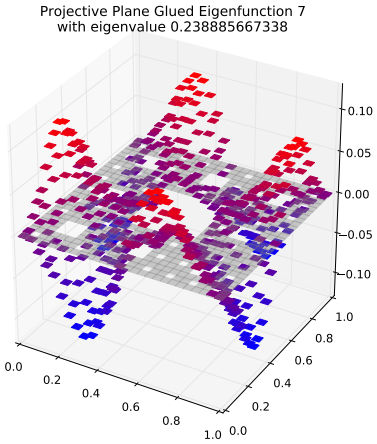
8 $M = 4$ Eigenfunction 7

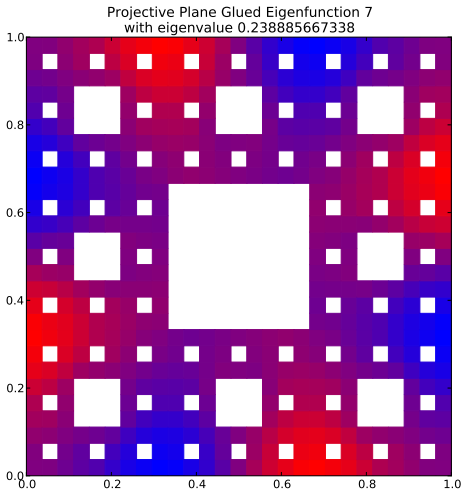
$M = 4$ Eigenfunction 7 has eigenvalue 0.0380849122341





Compare to $m = 3$ eigenspace with eigenvalue 0.238885667338

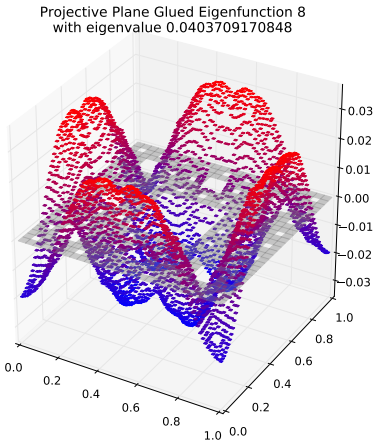


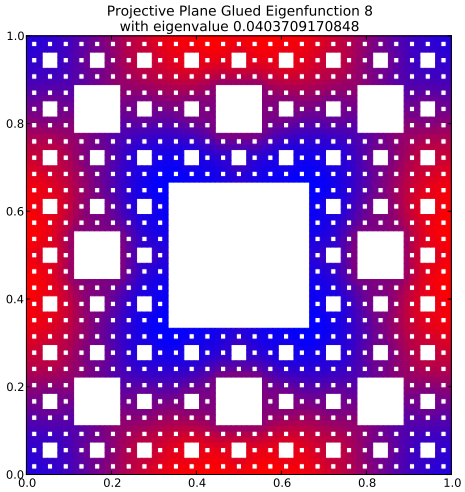


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.159427363971$
Dot Value: 0.00016677501814665874

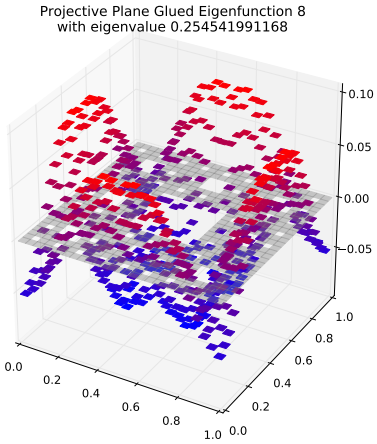
9 $M = 4$ Eigenfunction 8

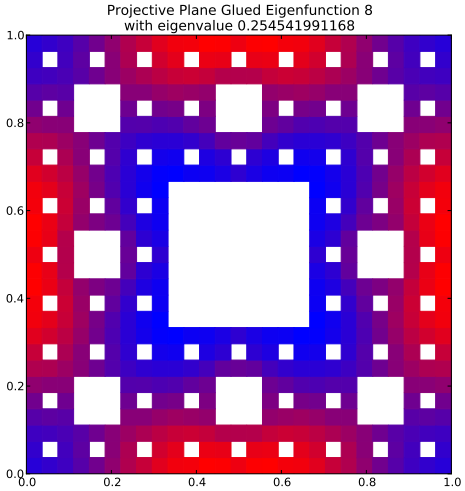
$M = 4$ Eigenfunction 8 has eigenvalue 0.0403709170848





Compare to $m = 3$ eigenspace with eigenvalue 0.254541991168

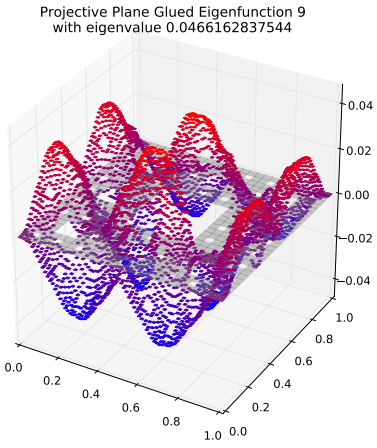


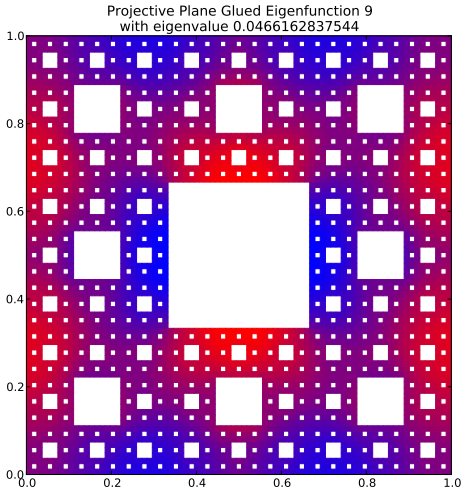


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.158602189366$
Dot Value: 0.00031923910090536634

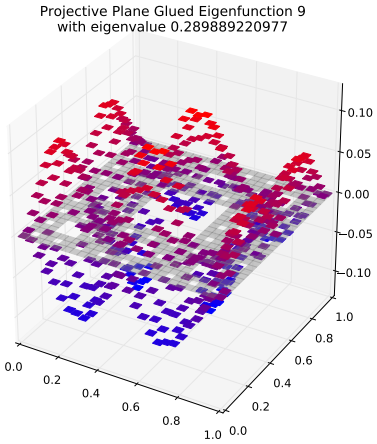
10 $M = 4$ Eigenfunction 9

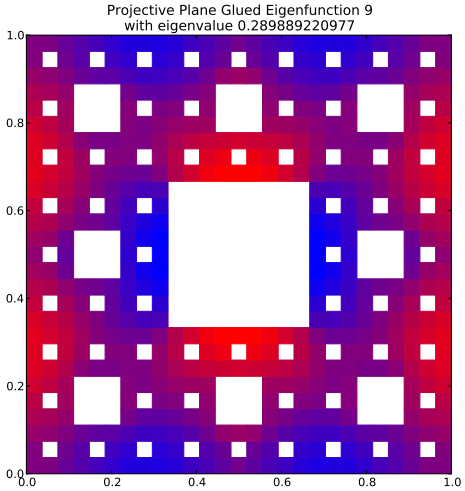
$M = 4$ Eigenfunction 9 has eigenvalue 0.0466162837544





Compare to $m = 3$ eigenspace with eigenvalue 0.289889220977

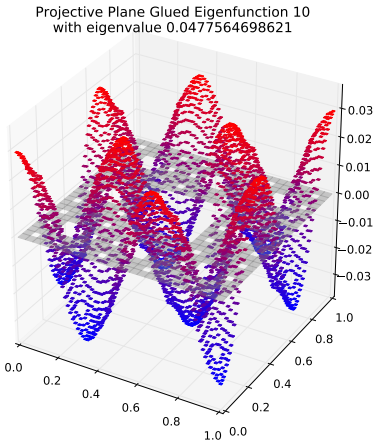


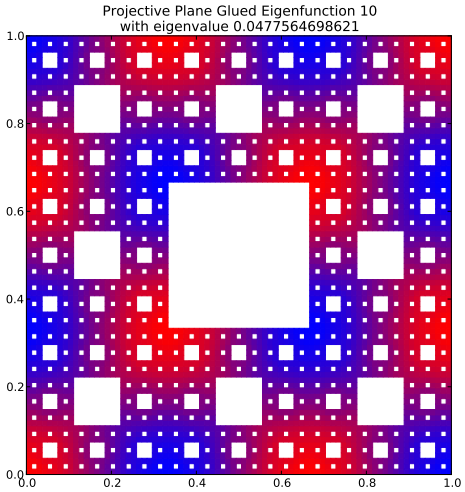


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.160807233871$
Dot Value: 0.0001841768037885716

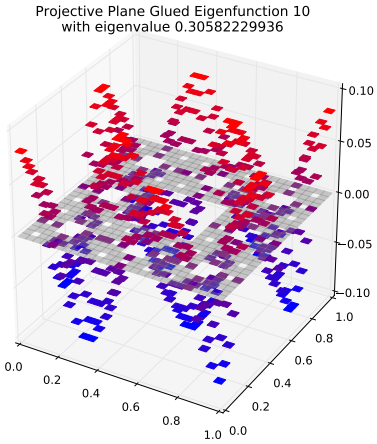
11 $M = 4$ Eigenfunction 10

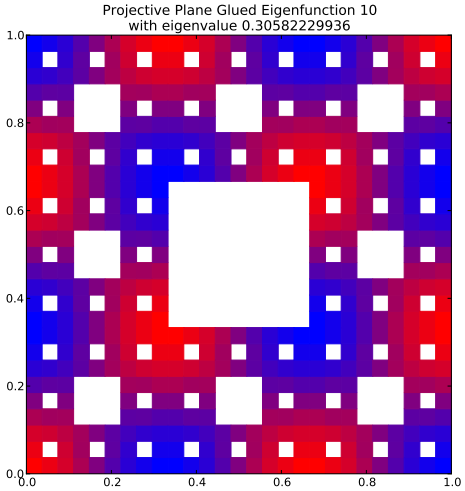
$M = 4$ Eigenfunction 10 has eigenvalue 0.047756469862





Compare to $m = 3$ eigenspace with eigenvalue 0.30582229936

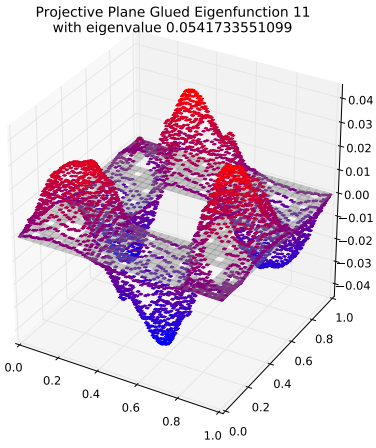


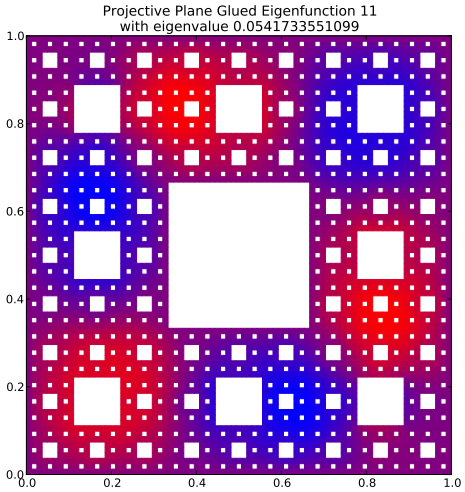


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.156157578967$
Dot Value: 0.00017225677959209484

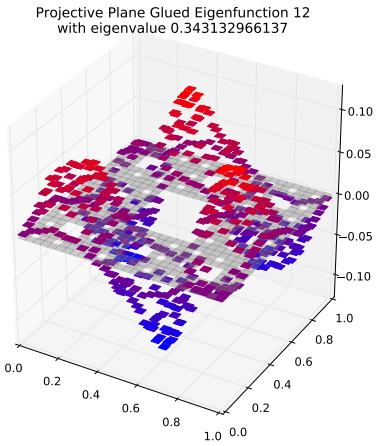
12 $M = 4$ Eigenfunction 11

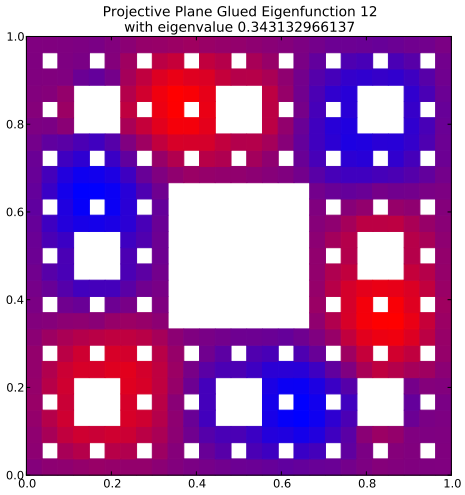
$M = 4$ Eigenfunction 11 has eigenvalue 0.0541733551099





Compare to $m = 3$ eigenspace with eigenvalue 0.343132966137
(Note: Eigenspace Dimension > 1)

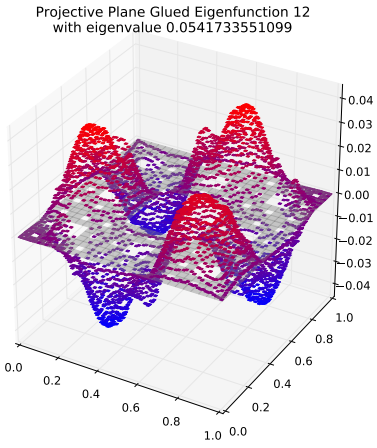


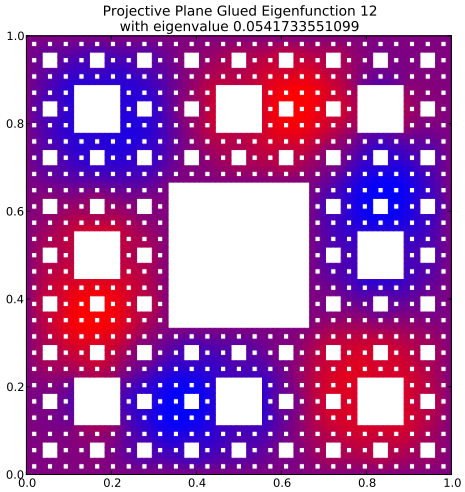


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.157878608167$
Dot Value: 0.00037827082523067546

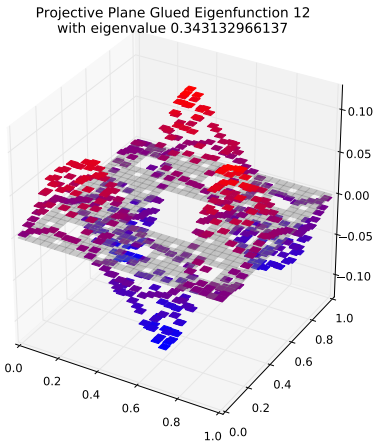
13 $M = 4$ Eigenfunction 12

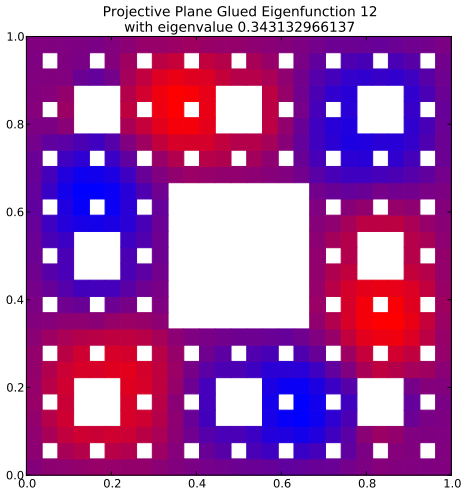
$M = 4$ Eigenfunction 12 has eigenvalue 0.0541733551099





Compare to $m = 3$ eigenspace with eigenvalue 0.343132966137
(Note: Eigenspace Dimension > 1)

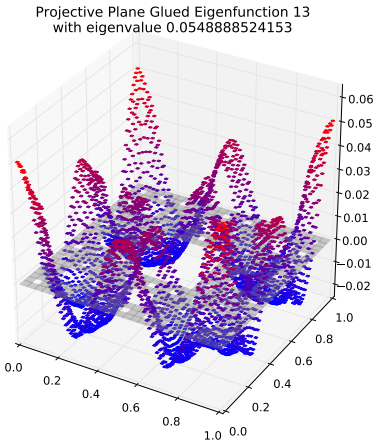


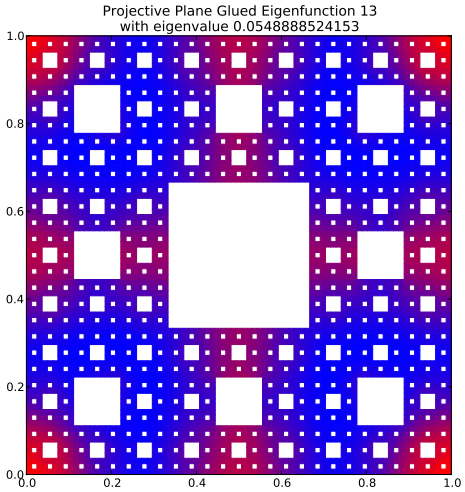


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.157878608167$
Dot Value: 0.00037827082523056443

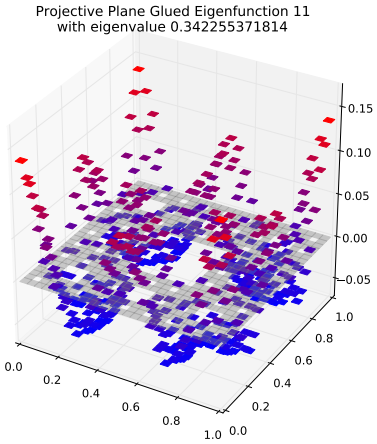
14 $M = 4$ Eigenfunction 13

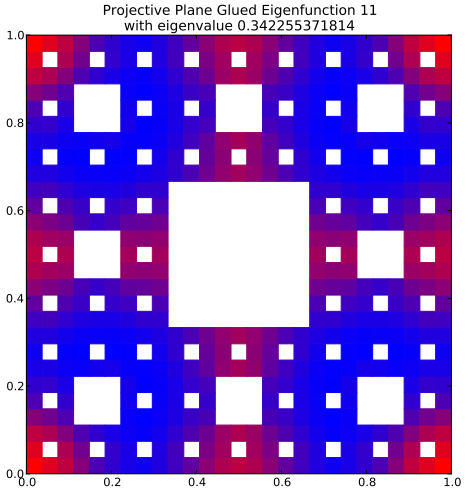
$M = 4$ Eigenfunction 13 has eigenvalue 0.0548888524153





Compare to $m = 3$ eigenspace with eigenvalue 0.342255371814

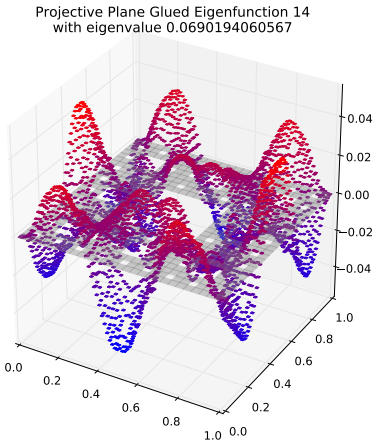


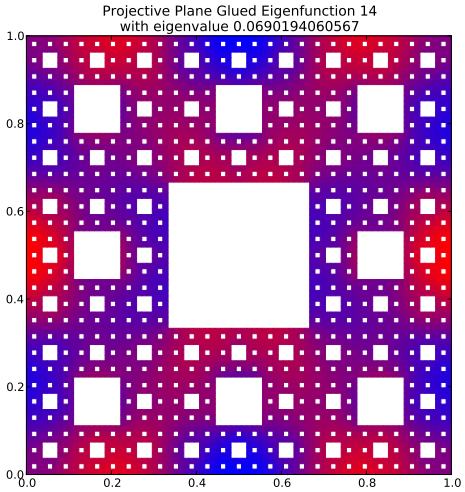


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.160373969076$
Dot Value: 0.000736576409165357

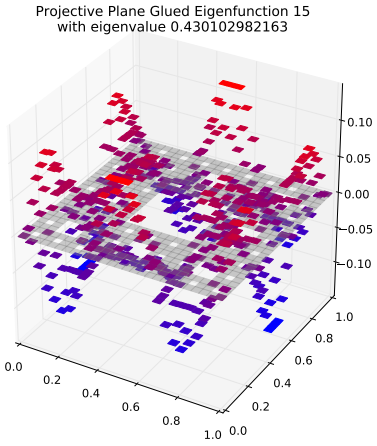
15 $M = 4$ Eigenfunction 14

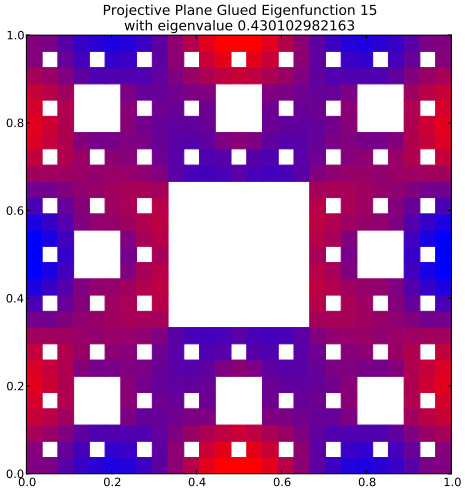
$M = 4$ Eigenfunction 14 has eigenvalue 0.0690194060567





Compare to $m = 3$ eigenspace with eigenvalue 0.430102982163

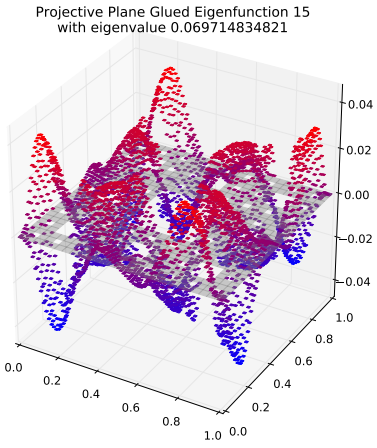


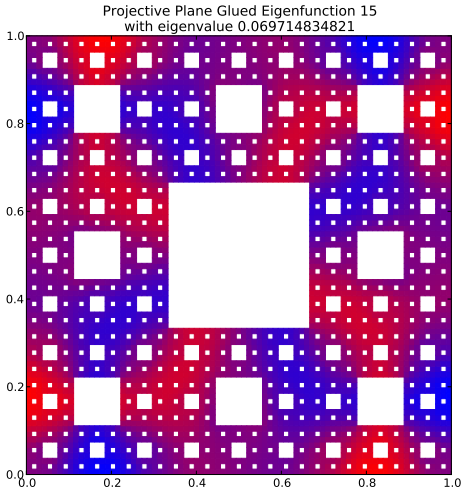


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.160471814703$
Dot Value: 0.0003659335272420128

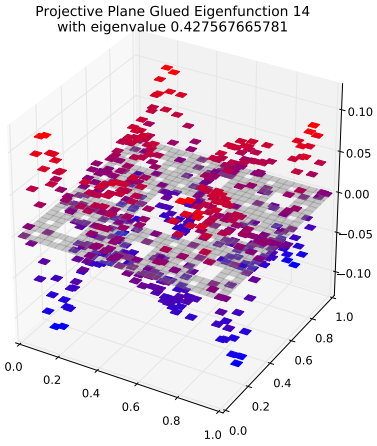
16 $M = 4$ Eigenfunction 15

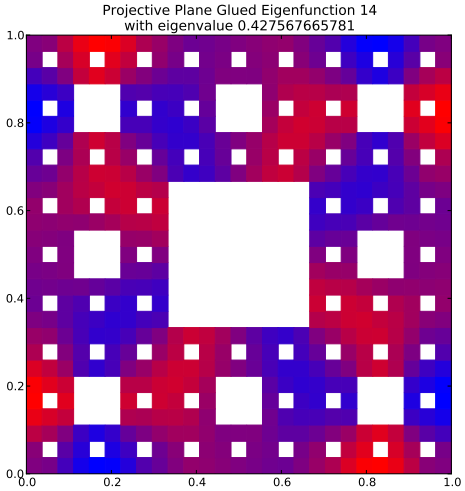
$M = 4$ Eigenfunction 15 has eigenvalue 0.069714834821





Compare to $m = 3$ eigenspace with eigenvalue 0.427567665781

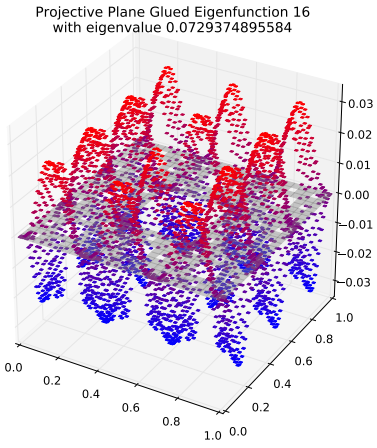


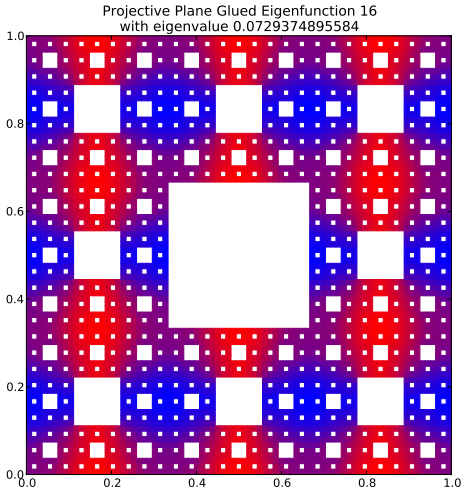


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.163049829069$
Dot Value: 0.00048539060804075884

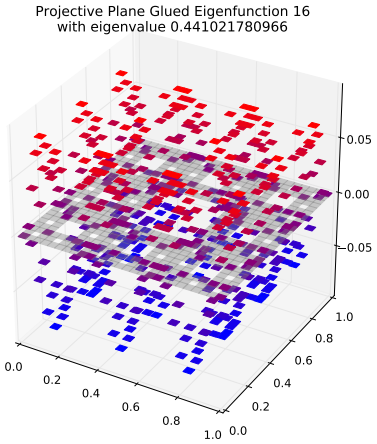
17 $M = 4$ Eigenfunction 16

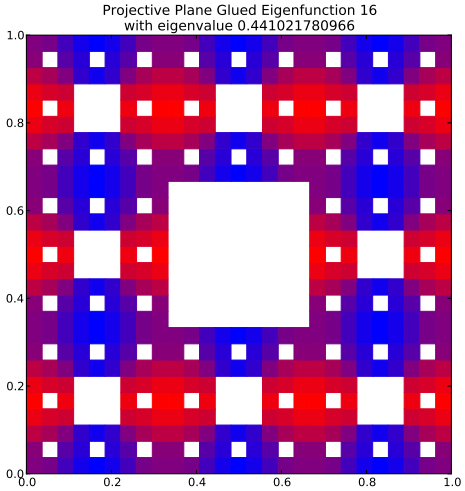
$M = 4$ Eigenfunction 16 has eigenvalue 0.0729374895584





Compare to $m = 3$ eigenspace with eigenvalue 0.441021780966

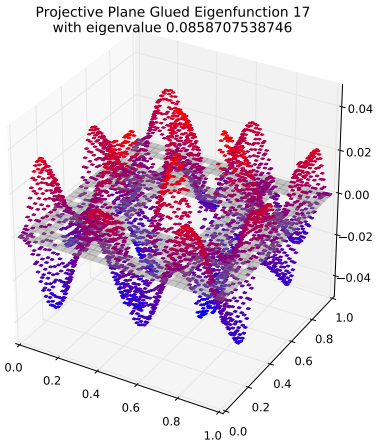


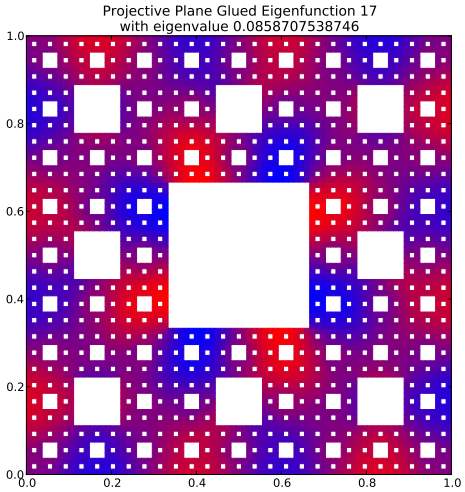


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.16538296453$
Dot Value: 0.00019085106911675975

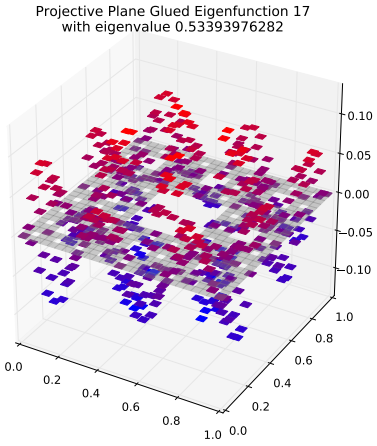
18 $M = 4$ Eigenfunction 17

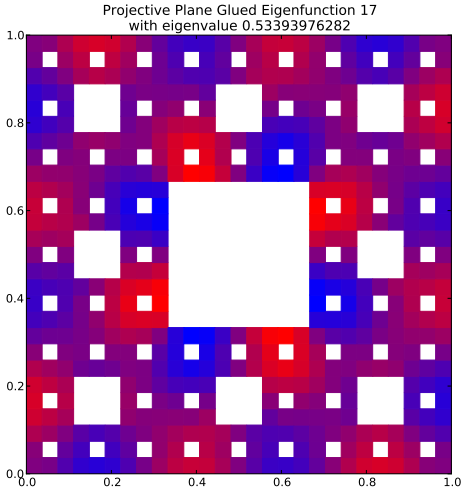
$M = 4$ Eigenfunction 17 has eigenvalue 0.0858707538746





Compare to $m = 3$ eigenspace with eigenvalue 0.53393976282

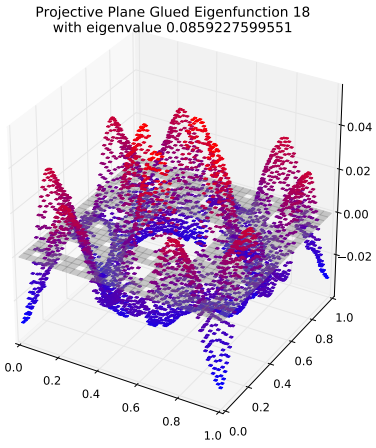


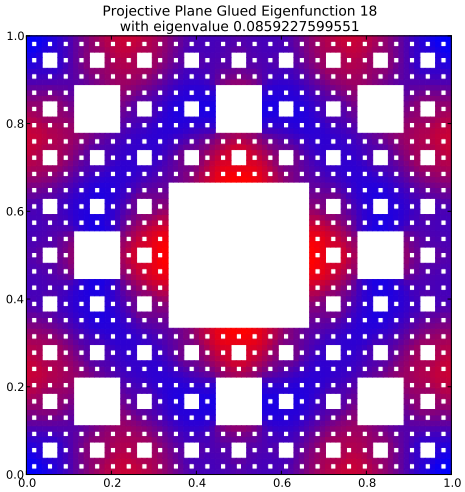


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.160824796829$
Dot Value: 0.00130198615918974 97

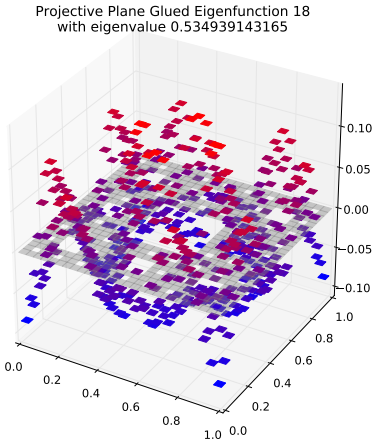
19 $M = 4$ Eigenfunction 18

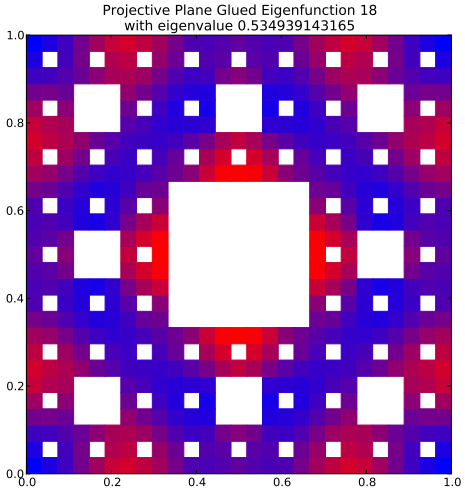
$M = 4$ Eigenfunction 18 has eigenvalue 0.0859227599551





Compare to $m = 3$ eigenspace with eigenvalue 0.534939143165

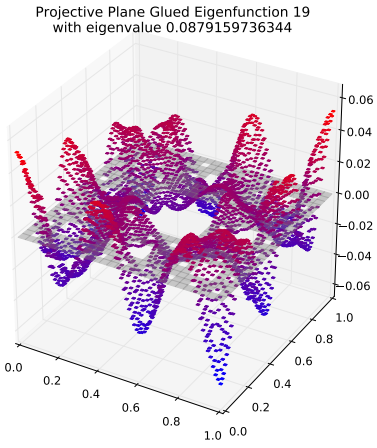


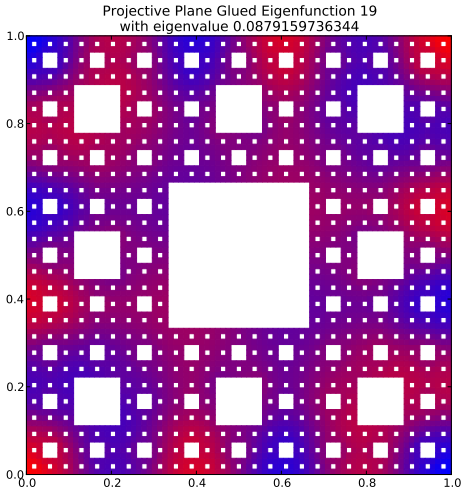


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.160621560514$
Dot Value: 0.0020693952477724986

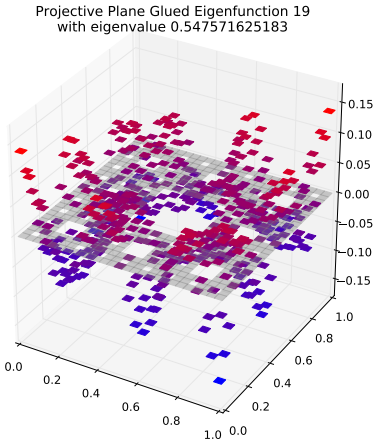
20 $M = 4$ Eigenfunction 19

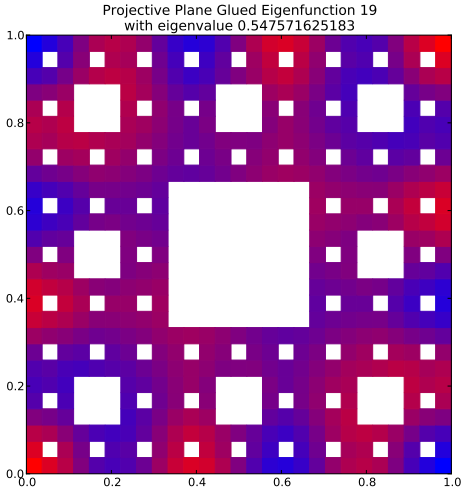
$M = 4$ Eigenfunction 19 has eigenvalue 0.0879159736344





Compare to $m = 3$ eigenspace with eigenvalue 0.547571625183

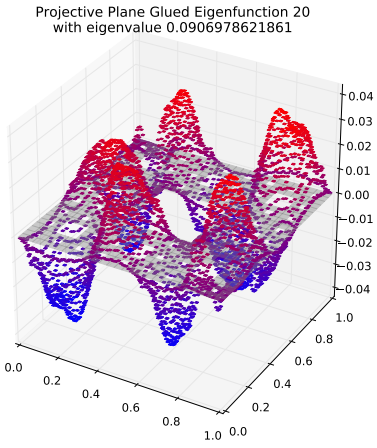


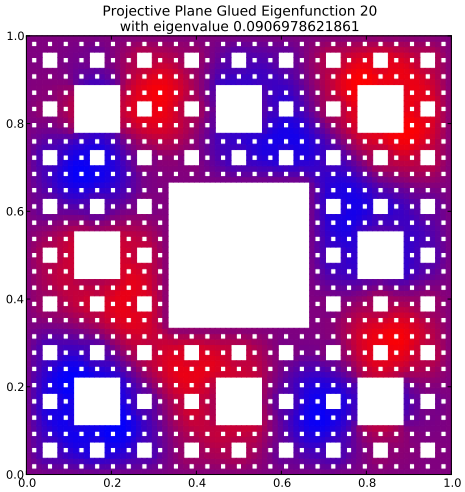


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.160556116481$
Dot Value: 0.000752151634817233

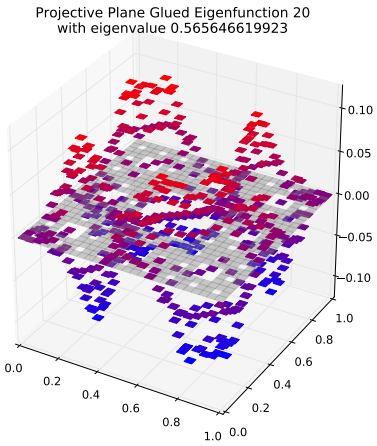
21 $M = 4$ Eigenfunction 20

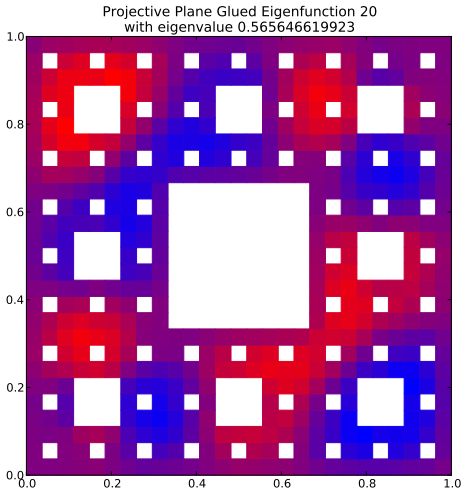
$M = 4$ Eigenfunction 20 has eigenvalue 0.0906978621861





Compare to $m = 3$ eigenspace with eigenvalue 0.565646619923
(Note: Eigenspace Dimension > 1)

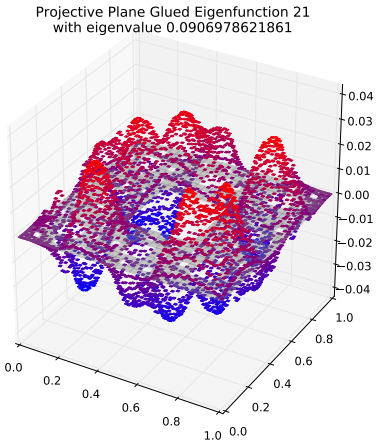


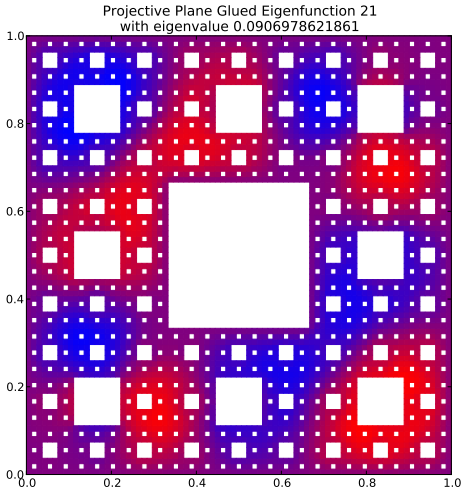


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.160343682772$
Dot Value: 0.0011818544967552302

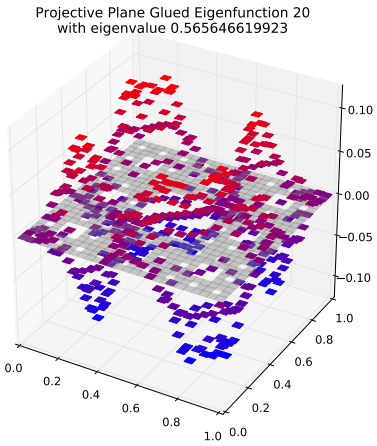
22 $M = 4$ Eigenfunction 21

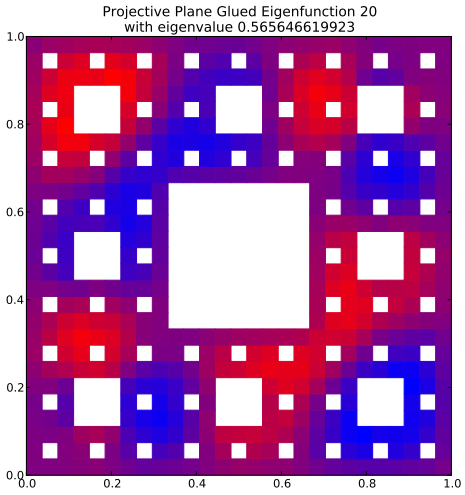
$M = 4$ Eigenfunction 21 has eigenvalue 0.0906978621861





Compare to $m = 3$ eigenspace with eigenvalue 0.565646619923
(Note: Eigenspace Dimension > 1)

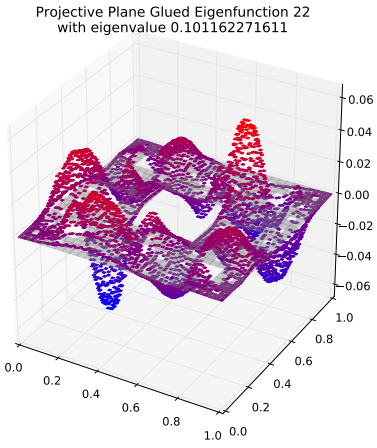


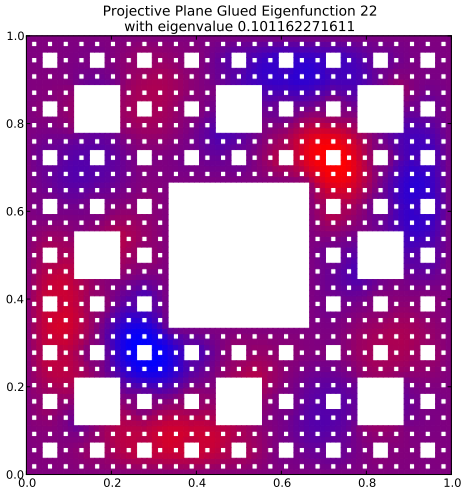


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.160343682772$
Dot Value: 0.0011818544967553413

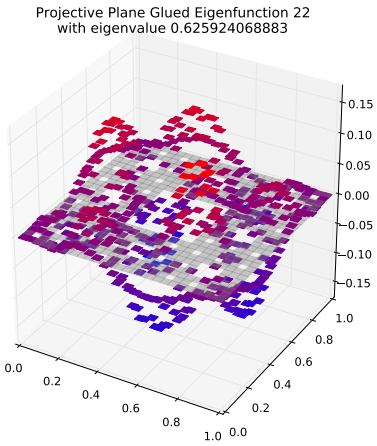
23 $M = 4$ Eigenfunction 22

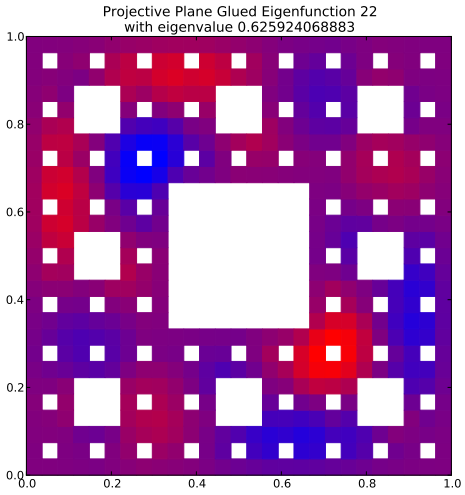
$M = 4$ Eigenfunction 22 has eigenvalue 0.101162271611





Compare to $m = 3$ eigenspace with eigenvalue 0.625924068883
(Note: Eigenspace Dimension > 1)

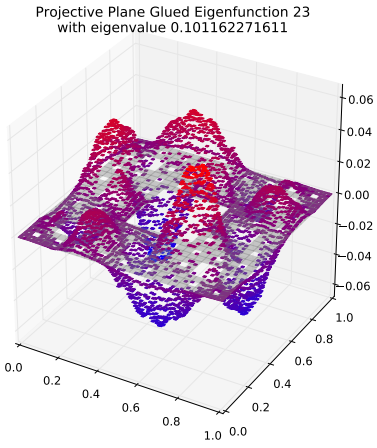


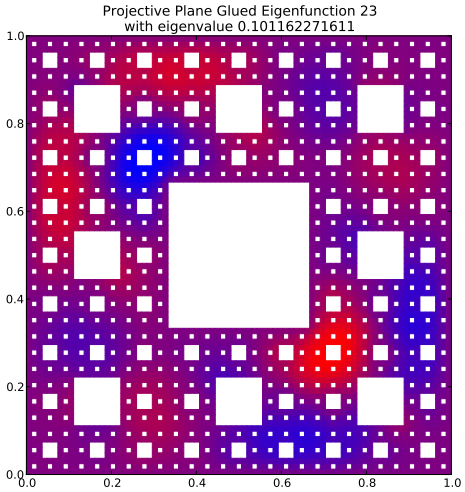


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.161620676757$
Dot Value: 0.0012685692555612915

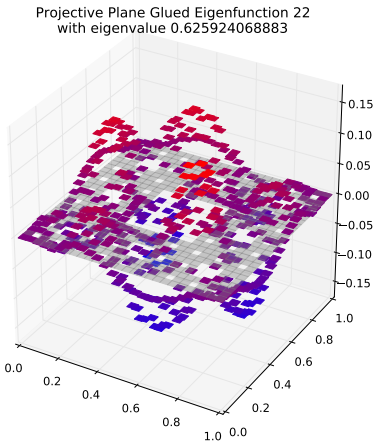
24 $M = 4$ Eigenfunction 23

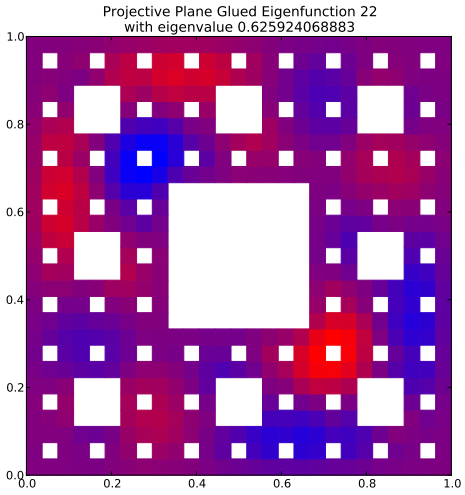
$M = 4$ Eigenfunction 23 has eigenvalue 0.101162271611





Compare to $m = 3$ eigenspace with eigenvalue 0.625924068883
(Note: Eigenspace Dimension > 1)

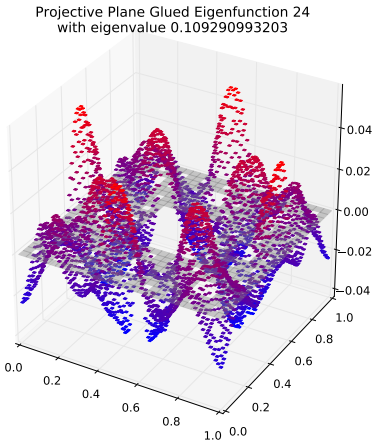


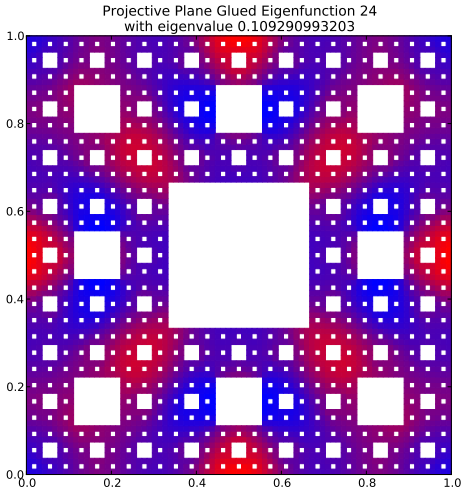


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.161620676757$
Dot Value: 0.0012685692555616246

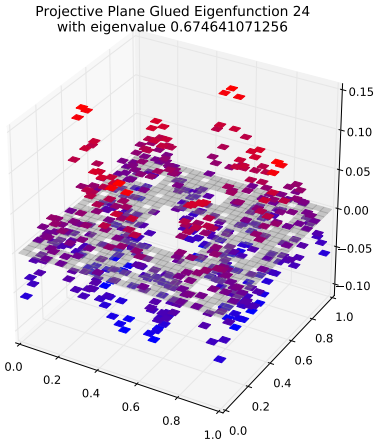
25 $M = 4$ Eigenfunction 24

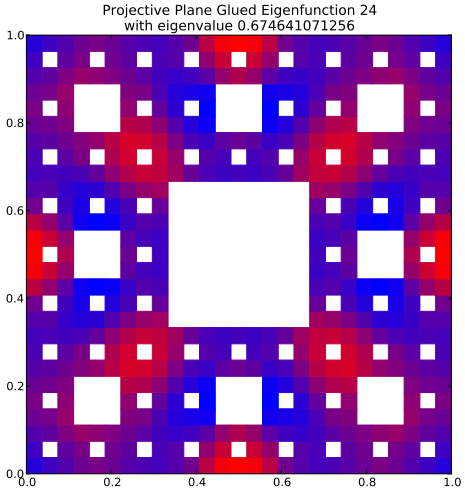
$M = 4$ Eigenfunction 24 has eigenvalue 0.109290993203





Compare to $m = 3$ eigenspace with eigenvalue 0.674641071256

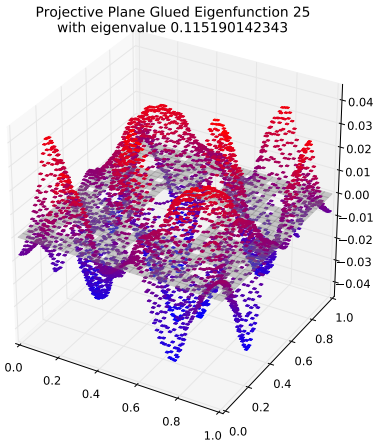


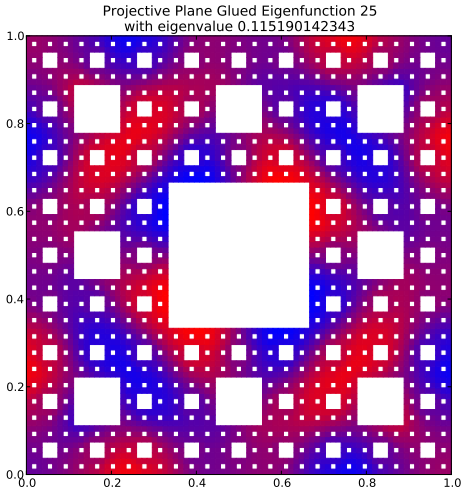


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.161998724743$
Dot Value: 0.002216286693924041

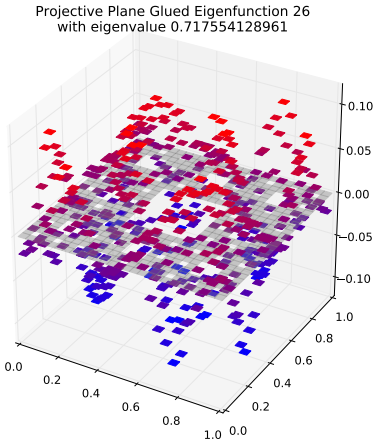
26 $M = 4$ Eigenfunction 25

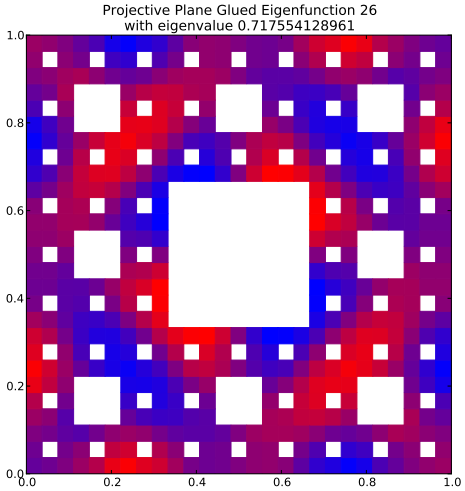
$M = 4$ Eigenfunction 25 has eigenvalue 0.115190142343





Compare to $m = 3$ eigenspace with eigenvalue 0.717554128961

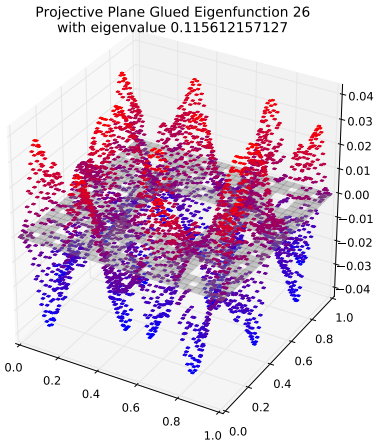


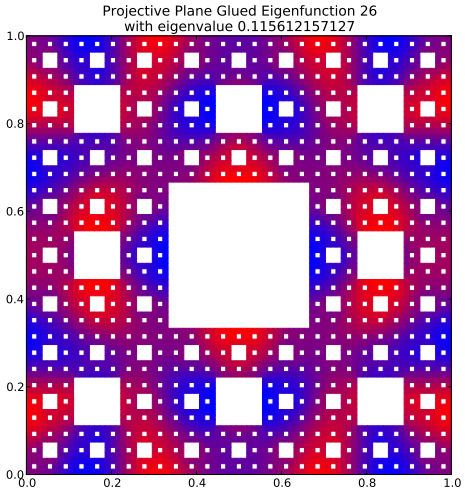


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.160531641717$
Dot Value: 0.0011386770236814225

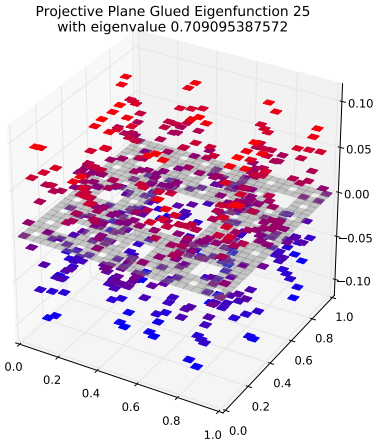
27 $M = 4$ Eigenfunction 26

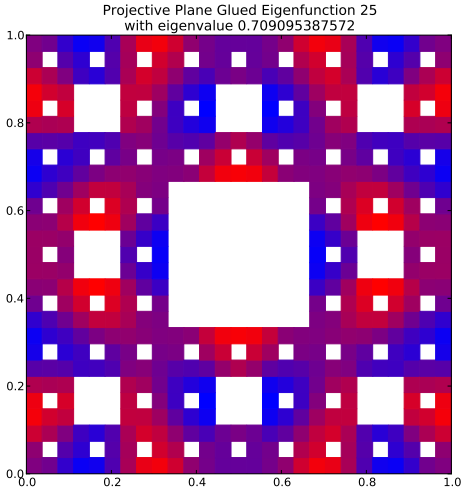
$M = 4$ Eigenfunction 26 has eigenvalue 0.115612157127





Compare to $m = 3$ eigenspace with eigenvalue 0.709095387572

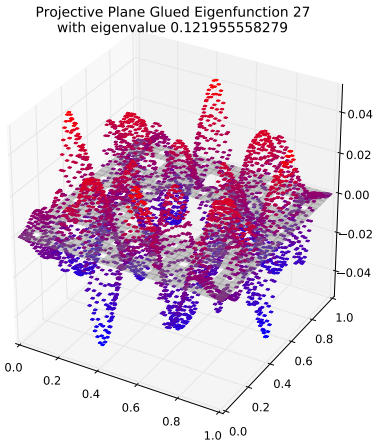


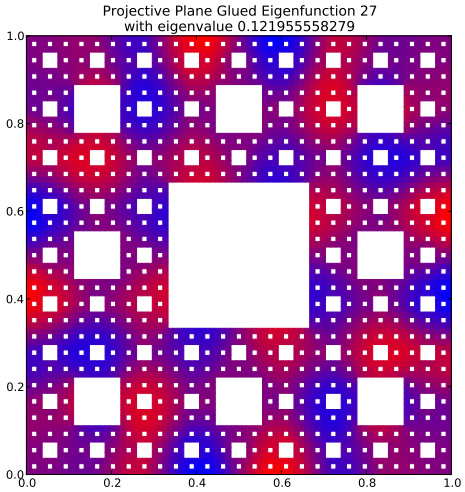


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.163041755952$
Dot Value: 0.0017738125603344868

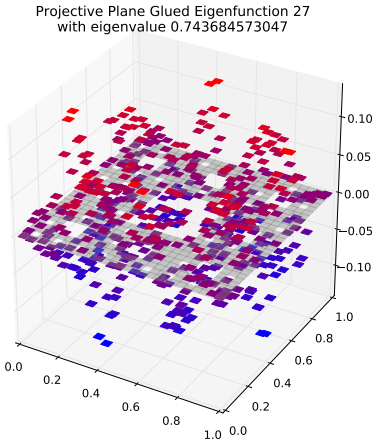
28 $M = 4$ Eigenfunction 27

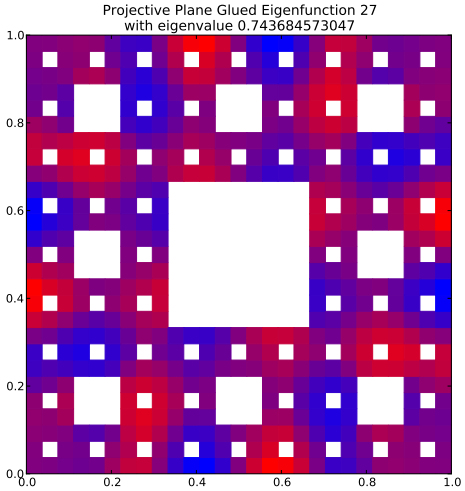
$M = 4$ Eigenfunction 27 has eigenvalue 0.121955558279





Compare to $m = 3$ eigenspace with eigenvalue 0.743684573047

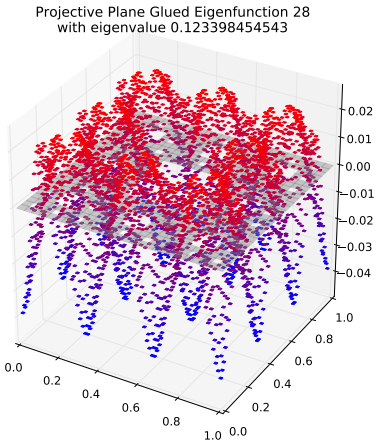


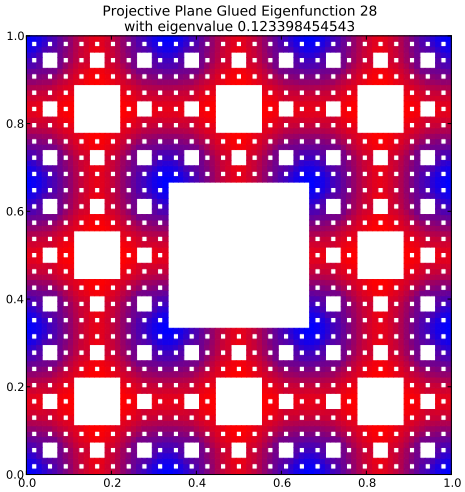


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.163988285758$
Dot Value: 0.0018996236200279348

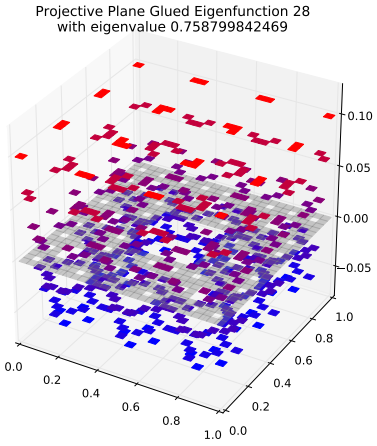
29 $M = 4$ Eigenfunction 28

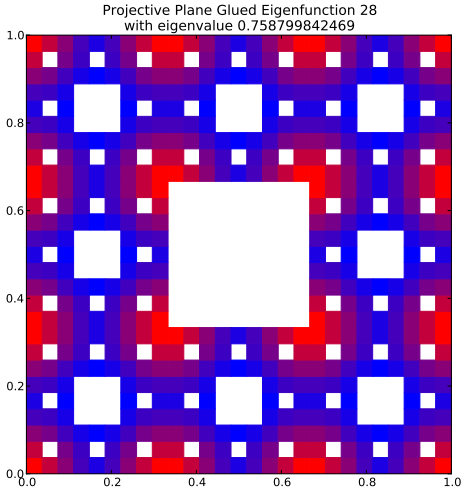
$M = 4$ Eigenfunction 28 has eigenvalue 0.123398454543





Compare to $m = 3$ eigenspace with eigenvalue 0.758799842469

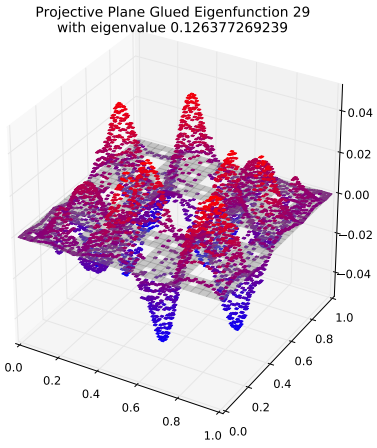


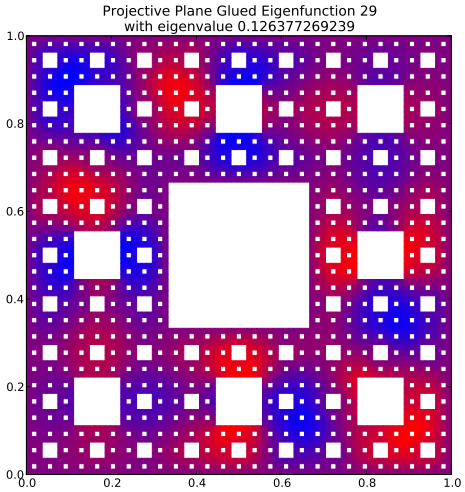


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.16262319473$
Dot Value: 0.0014215263537856737

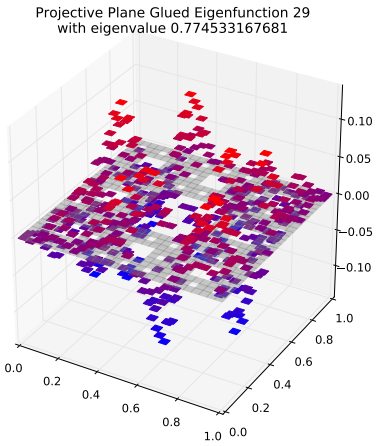
30 $M = 4$ Eigenfunction 29

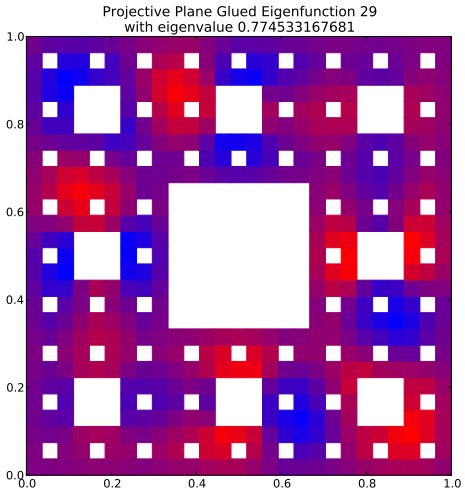
$M = 4$ Eigenfunction 29 has eigenvalue 0.126377269239





Compare to $m = 3$ eigenspace with eigenvalue 0.774533167681
(Note: Eigenspace Dimension > 1)

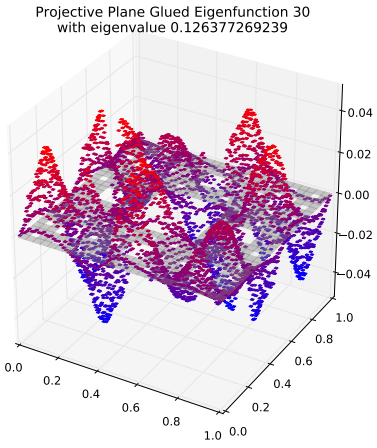


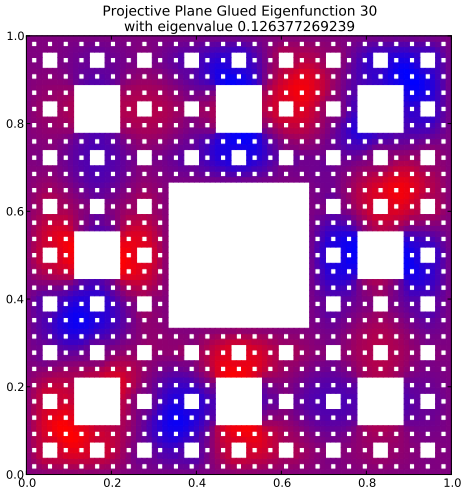


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.163165729387$
Dot Value: 0.004290675715828862

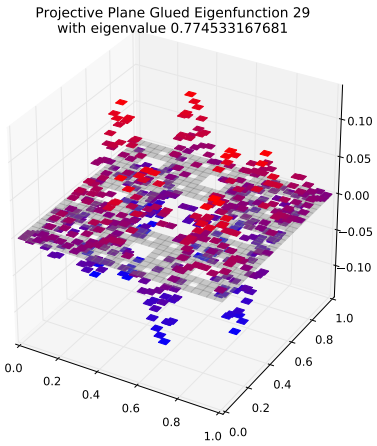
31 $M = 4$ Eigenfunction 30

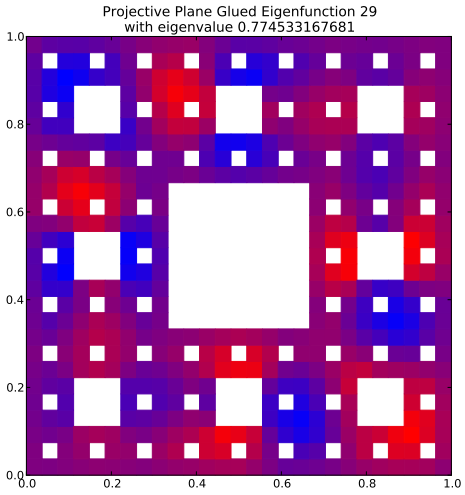
$M = 4$ Eigenfunction 30 has eigenvalue 0.126377269239





Compare to $m = 3$ eigenspace with eigenvalue 0.774533167681
(Note: Eigenspace Dimension > 1)

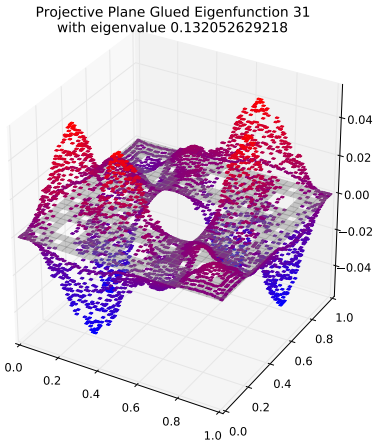


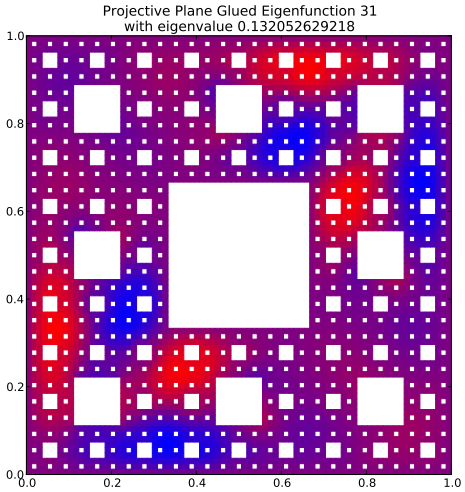


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.163165729387$
Dot Value: 0.004290675715825865

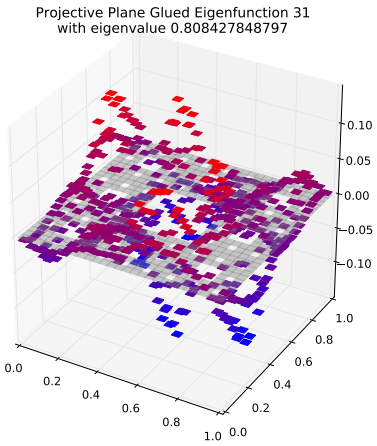
32 $M = 4$ Eigenfunction 31

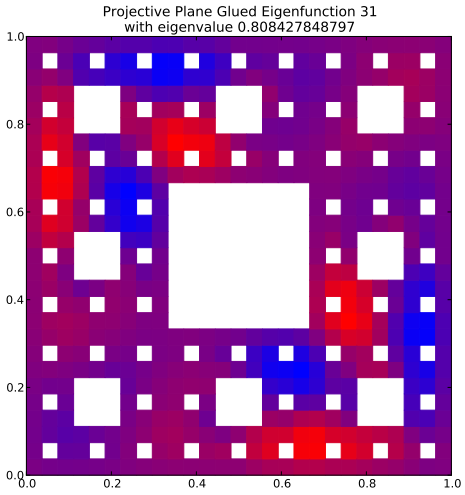
$M = 4$ Eigenfunction 31 has eigenvalue 0.132052629218





Compare to $m = 3$ eigenspace with eigenvalue 0.808427848797
(Note: Eigenspace Dimension > 1)

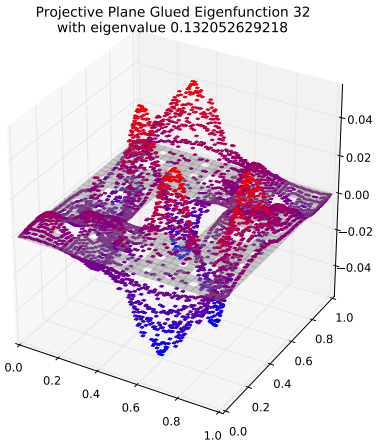


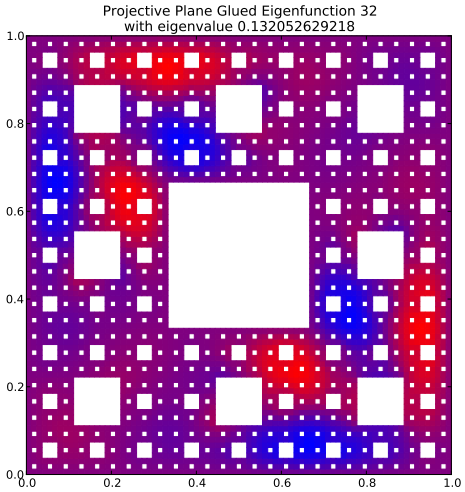


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.163344978052$
Dot Value: 0.0042407836960689504

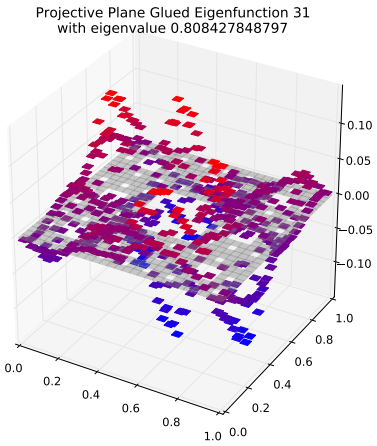
33 $M = 4$ Eigenfunction 32

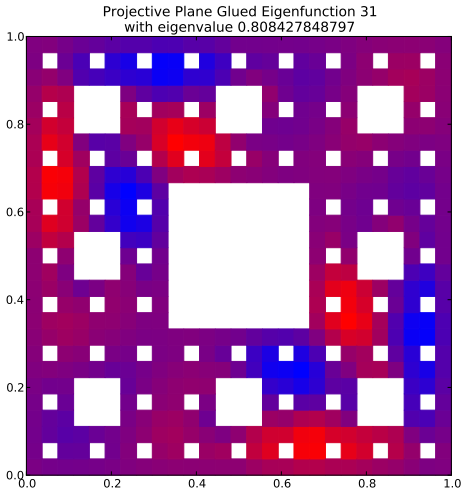
$M = 4$ Eigenfunction 32 has eigenvalue 0.132052629218





Compare to $m = 3$ eigenspace with eigenvalue 0.808427848797
(Note: Eigenspace Dimension > 1)

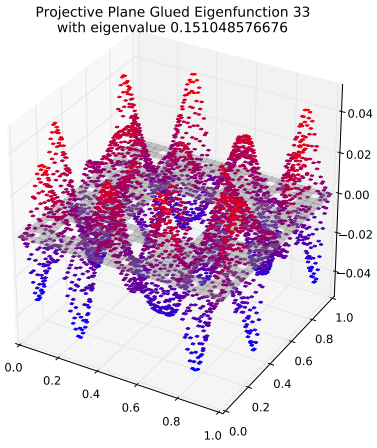


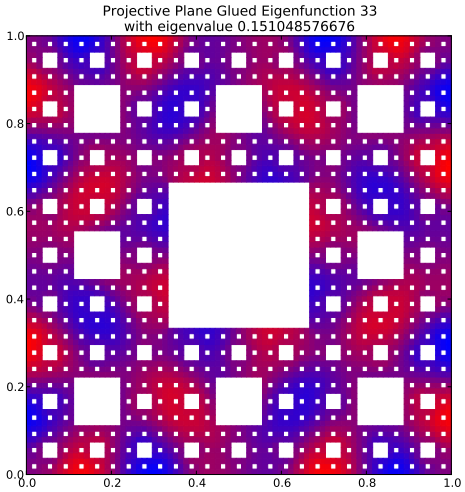


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.163344978052$
Dot Value: 0.004240783696073169

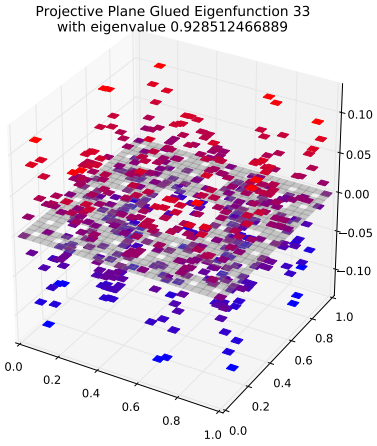
34 $M = 4$ Eigenfunction 33

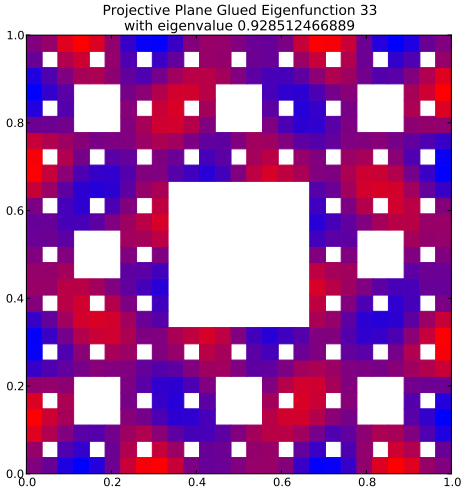
$M = 4$ Eigenfunction 33 has eigenvalue 0.151048576676





Compare to $m = 3$ eigenspace with eigenvalue 0.928512466889

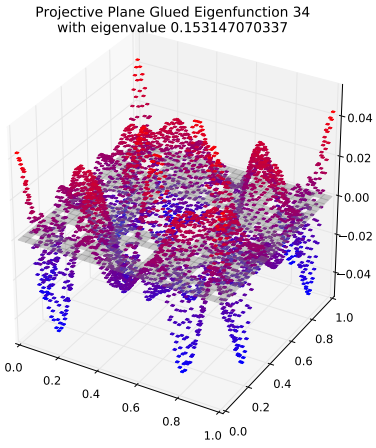


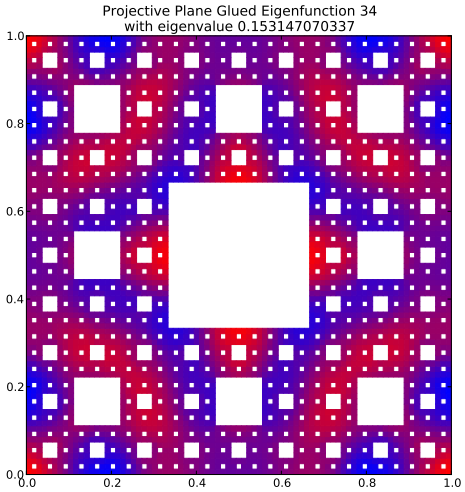


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.162678027558$
Dot Value: 0.0018508786897730722

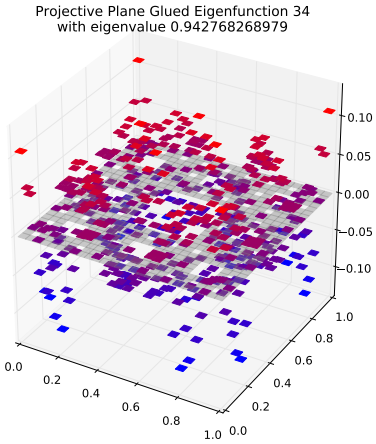
35 $M = 4$ Eigenfunction 34

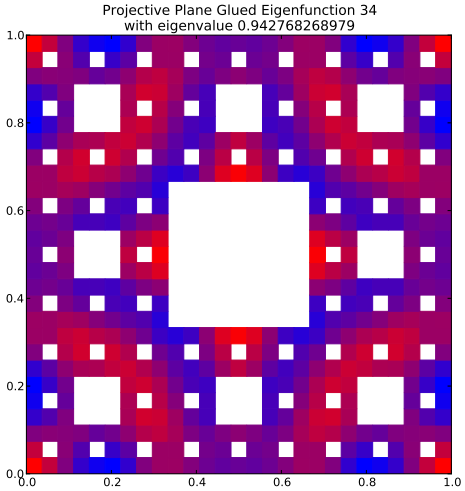
$M = 4$ Eigenfunction 34 has eigenvalue 0.153147070337





Compare to $m = 3$ eigenspace with eigenvalue 0.942768268979

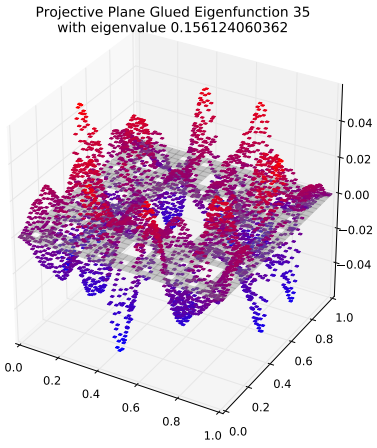


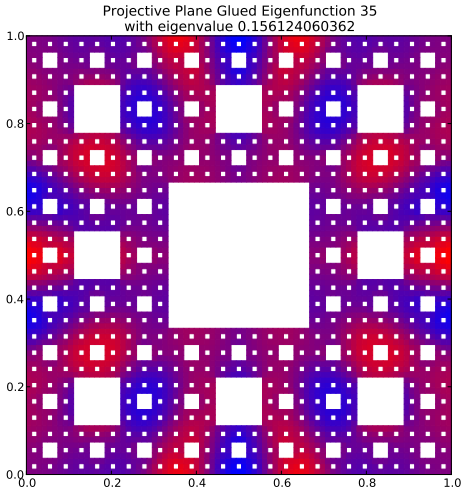


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.162444022965$
Dot Value: 0.001938666720777693

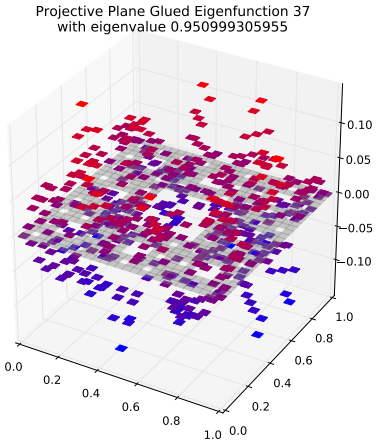
36 $M = 4$ Eigenfunction 35

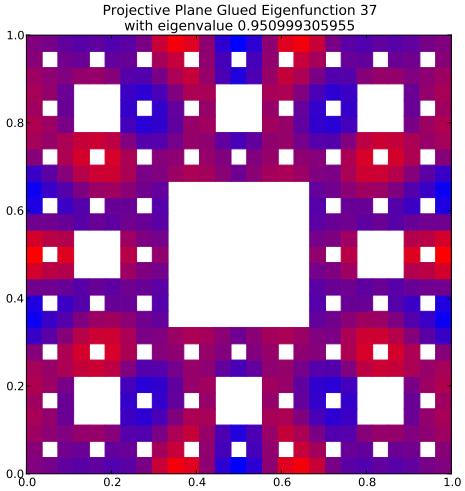
$M = 4$ Eigenfunction 35 has eigenvalue 0.156124060362





Compare to $m = 3$ eigenspace with eigenvalue 0.950999305955

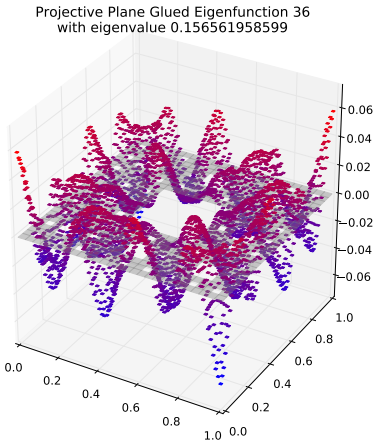


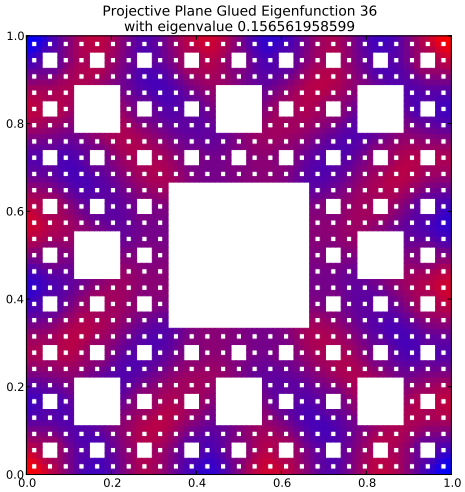


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.164168427237$
Dot Value: 0.004620966766550438

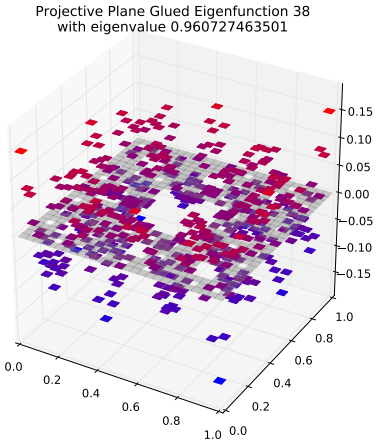
37 $M = 4$ Eigenfunction 36

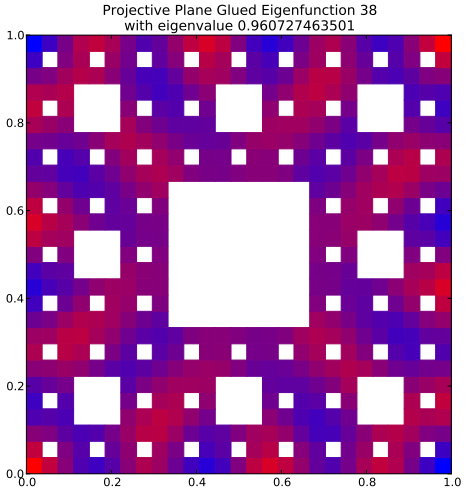
$M = 4$ Eigenfunction 36 has eigenvalue 0.156561958599





Compare to $m = 3$ eigenspace with eigenvalue 0.960727463501

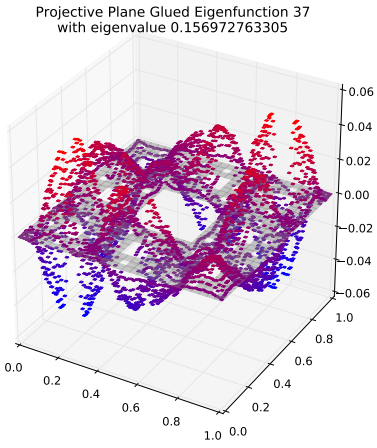


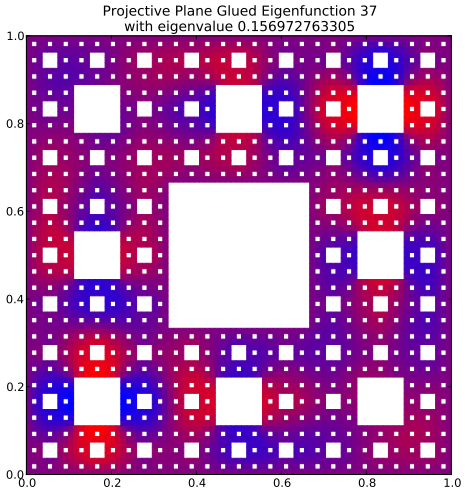


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.162961885183$
Dot Value: 0.0022688734314310066

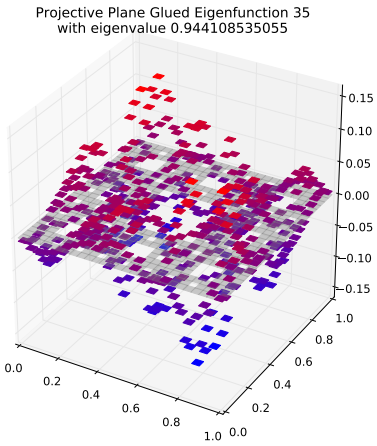
38 $M = 4$ Eigenfunction 37

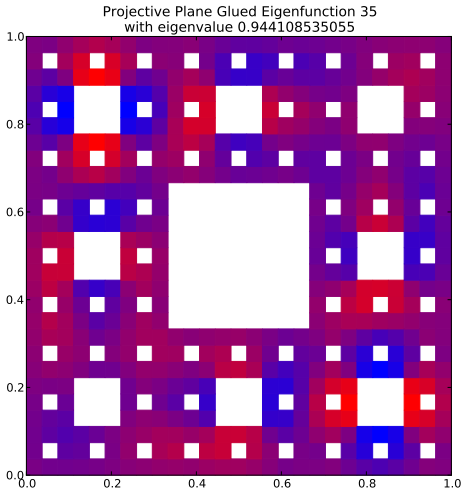
$M = 4$ Eigenfunction 37 has eigenvalue 0.156972763305





Compare to $m = 3$ eigenspace with eigenvalue 0.944108535055
(Note: Eigenspace Dimension > 1)

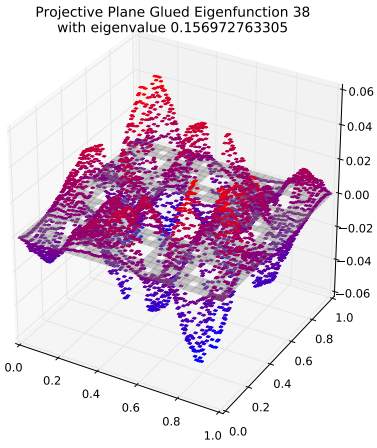


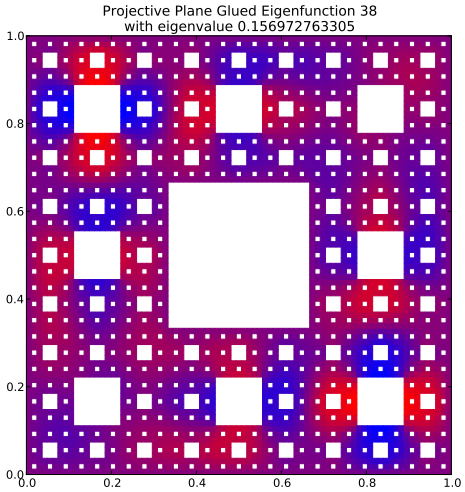


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.166265590742$
Dot Value: 0.0014782446148058348

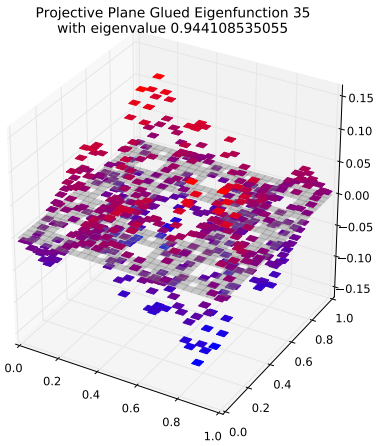
39 $M = 4$ Eigenfunction 38

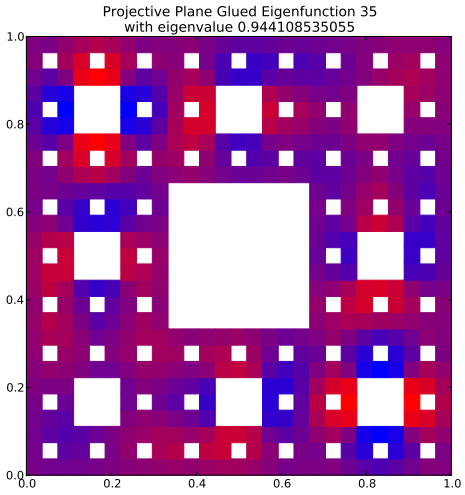
$M = 4$ Eigenfunction 38 has eigenvalue 0.156972763305





Compare to $m = 3$ eigenspace with eigenvalue 0.944108535055
(Note: Eigenspace Dimension > 1)

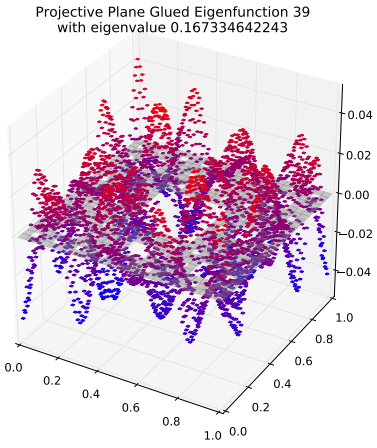


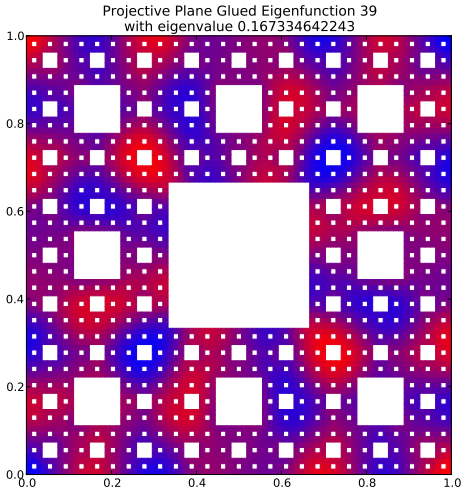


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.166265590742$
Dot Value: 0.0014782446148059458

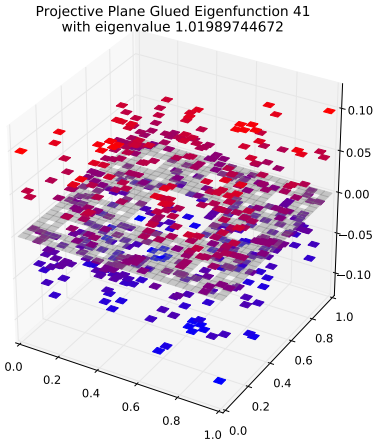
40 $M = 4$ Eigenfunction 39

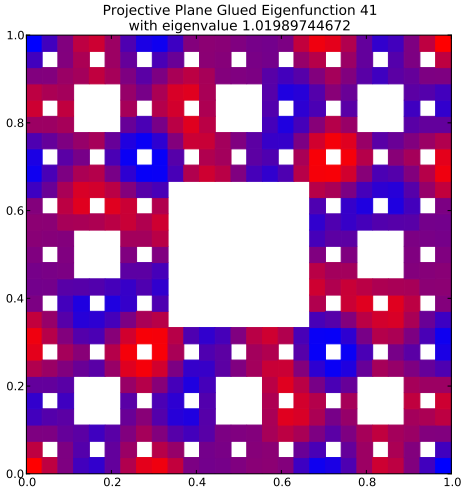
$M = 4$ Eigenfunction 39 has eigenvalue 0.167334642243





Compare to $m = 3$ eigenspace with eigenvalue 1.01989744672

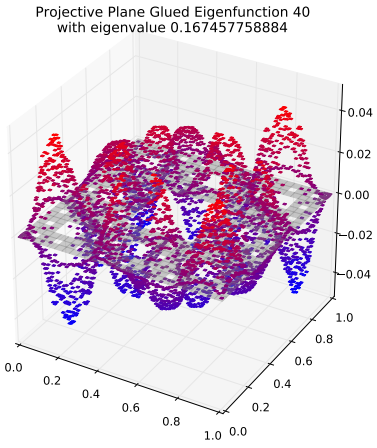


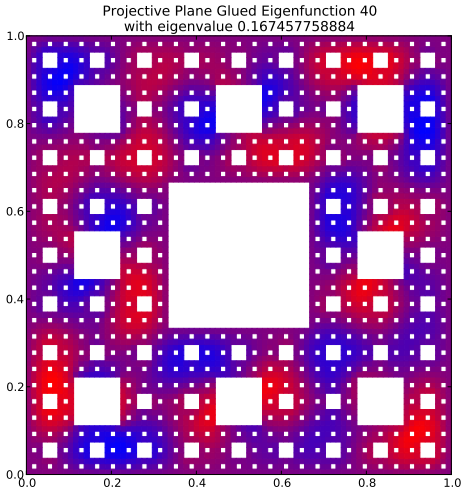


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.16407006683$
Dot Value: 0.0035524794665126036

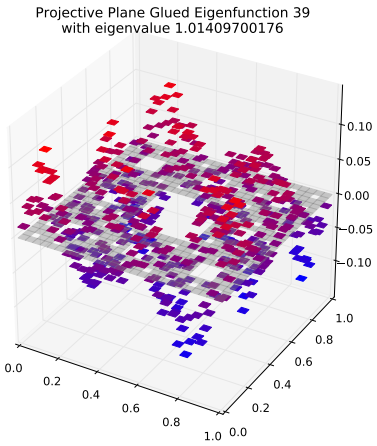
41 $M = 4$ Eigenfunction 40

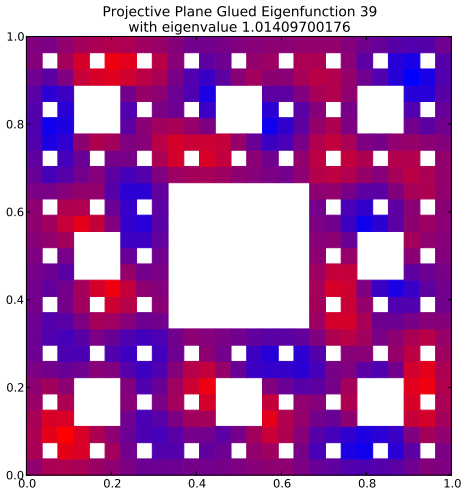
$M = 4$ Eigenfunction 40 has eigenvalue 0.167457758884





Compare to $m = 3$ eigenspace with eigenvalue 1.01409700176
(Note: Eigenspace Dimension > 1)

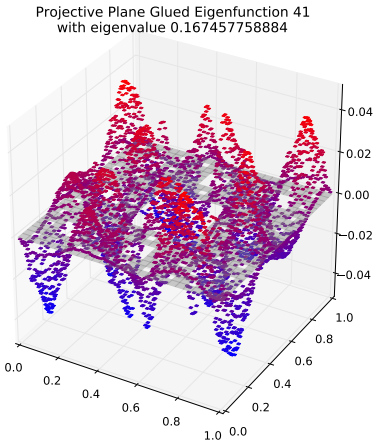


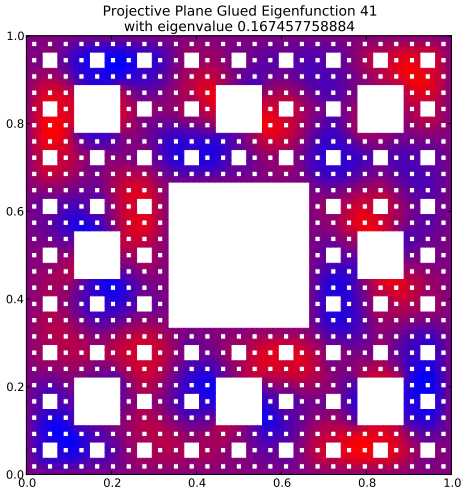


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.165129922082$
Dot Value: 0.003597122062774183

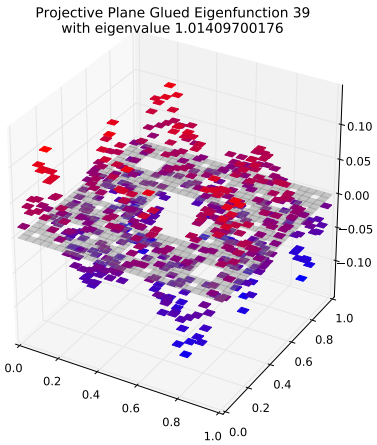
42 $M = 4$ Eigenfunction 41

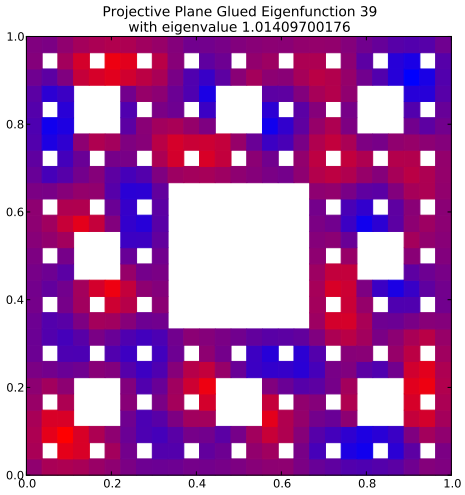
$M = 4$ Eigenfunction 41 has eigenvalue 0.167457758884





Compare to $m = 3$ eigenspace with eigenvalue 1.01409700176
(Note: Eigenspace Dimension > 1)

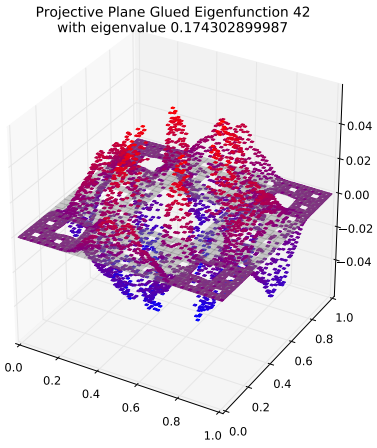


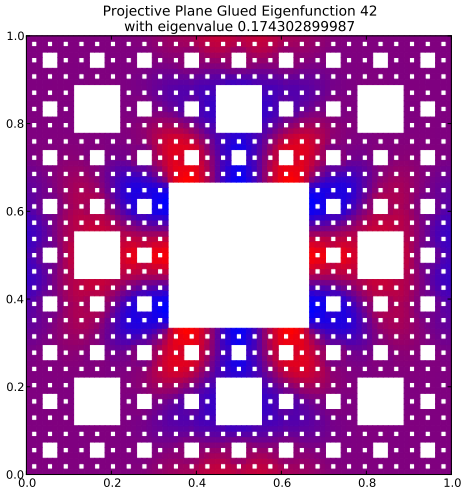


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.165129922082$
Dot Value: 0.003597122062775515

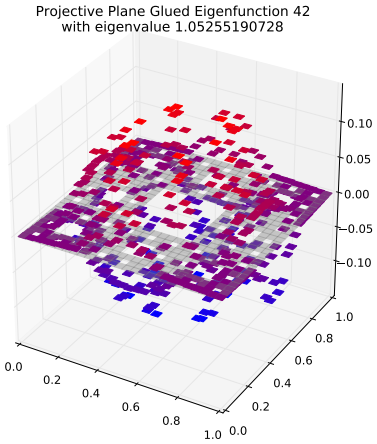
43 $M = 4$ Eigenfunction 42

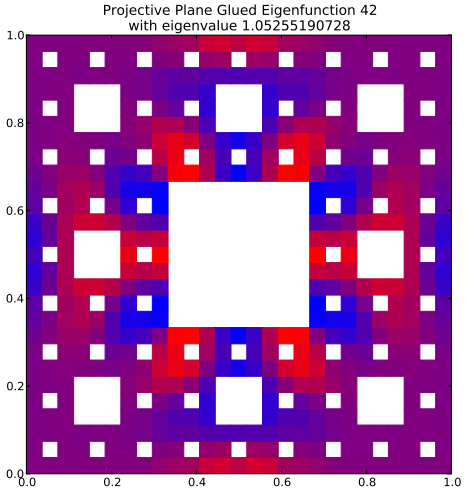
$M = 4$ Eigenfunction 42 has eigenvalue 0.174302899987





Compare to $m = 3$ eigenspace with eigenvalue 1.05255190728

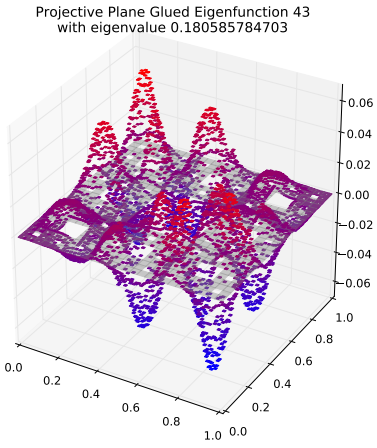


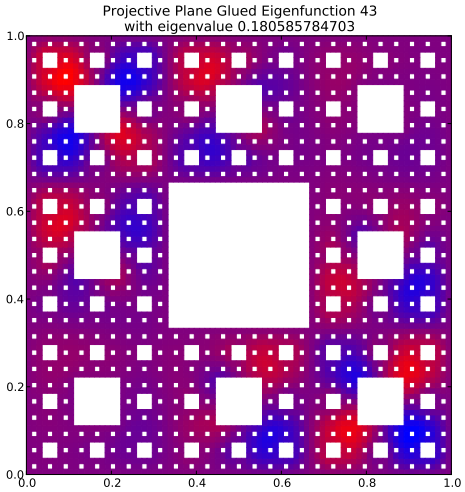


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.165600288957$
Dot Value: 0.004179961920588671

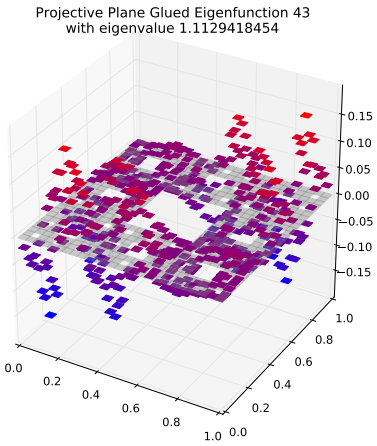
44 $M = 4$ Eigenfunction 43

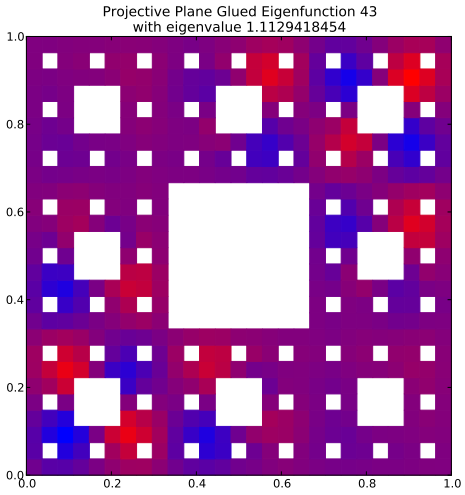
$M = 4$ Eigenfunction 43 has eigenvalue 0.180585784703





Compare to $m = 3$ eigenspace with eigenvalue 1.1129418454
(Note: Eigenspace Dimension > 1)

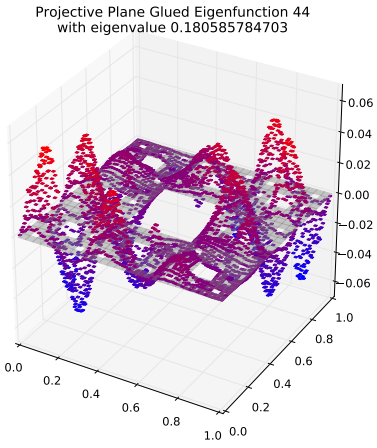


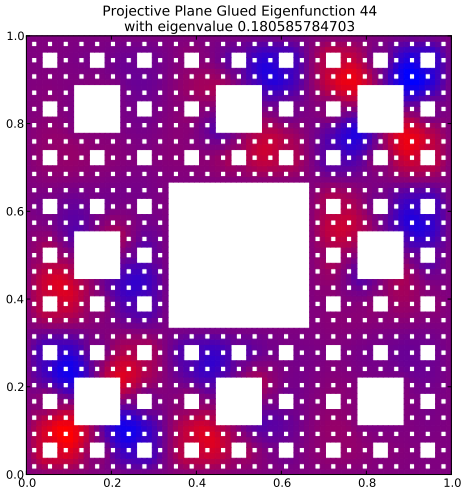


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.162259857017$
Dot Value: 0.0025257542642251885

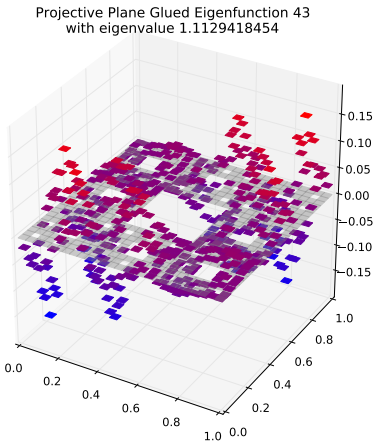
45 $M = 4$ Eigenfunction 44

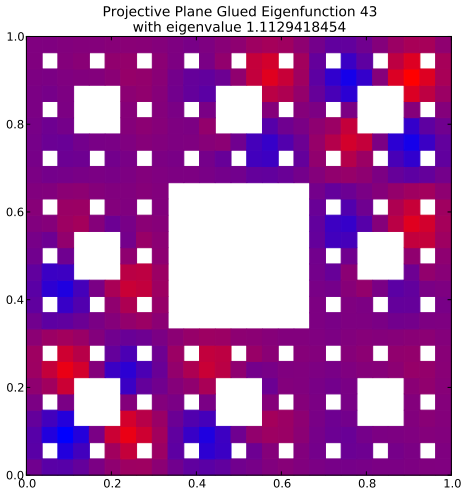
$M = 4$ Eigenfunction 44 has eigenvalue 0.180585784703





Compare to $m = 3$ eigenspace with eigenvalue 1.1129418454
(Note: Eigenspace Dimension > 1)

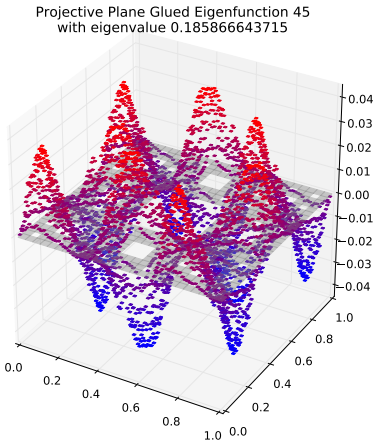


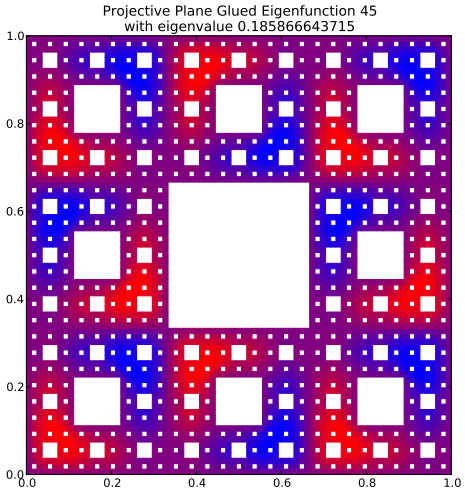


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.162259857017$
Dot Value: 0.0025257542642262987

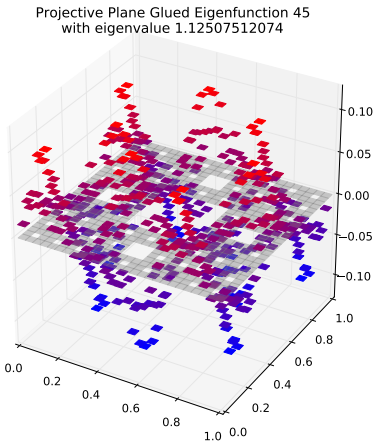
46 $M = 4$ Eigenfunction 45

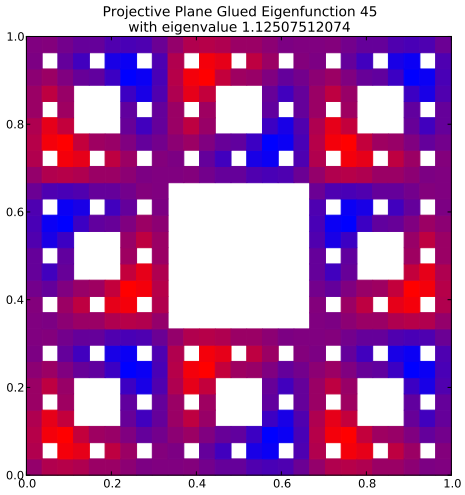
$M = 4$ Eigenfunction 45 has eigenvalue 0.185866643715





Compare to $m = 3$ eigenspace with eigenvalue 1.12507512074
(Note: Eigenspace Dimension > 1)

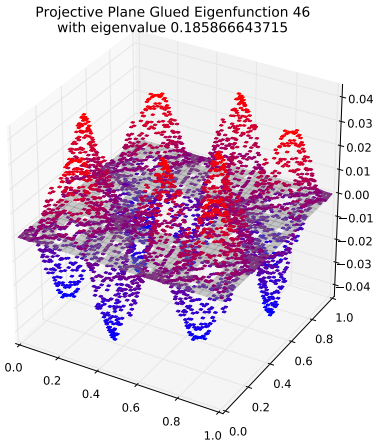


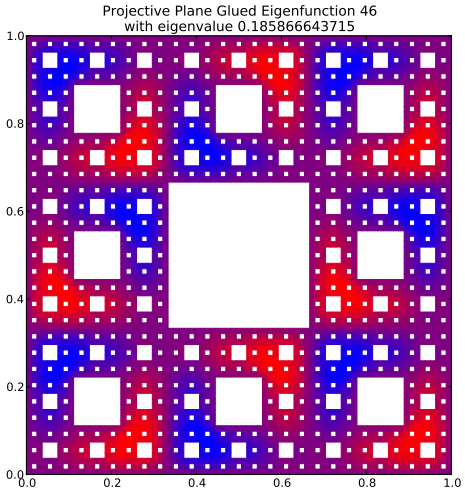


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.165203763099$
Dot Value: 0.0014332152551935762

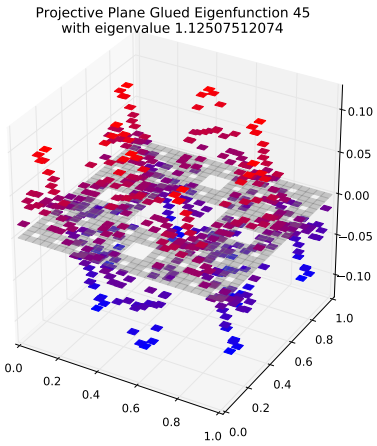
47 $M = 4$ Eigenfunction 46

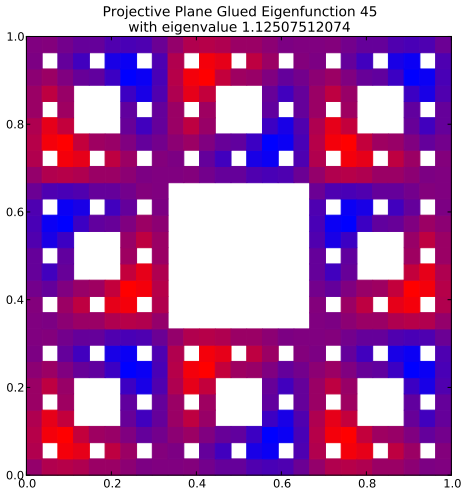
$M = 4$ Eigenfunction 46 has eigenvalue 0.185866643715





Compare to $m = 3$ eigenspace with eigenvalue 1.12507512074
(Note: Eigenspace Dimension > 1)

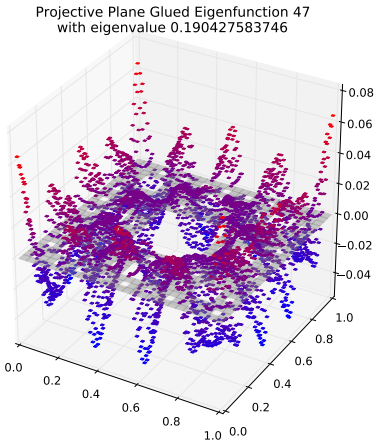


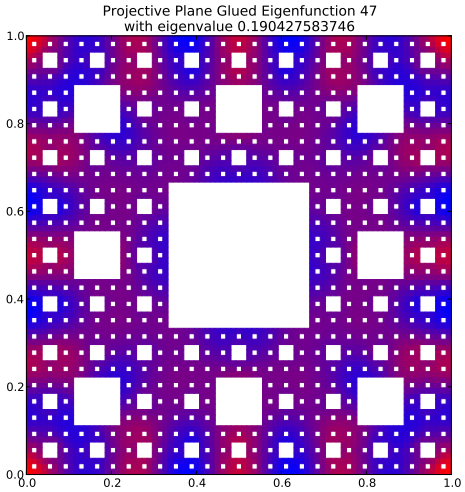


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.165203763099$
Dot Value: 0.0014332152551936872

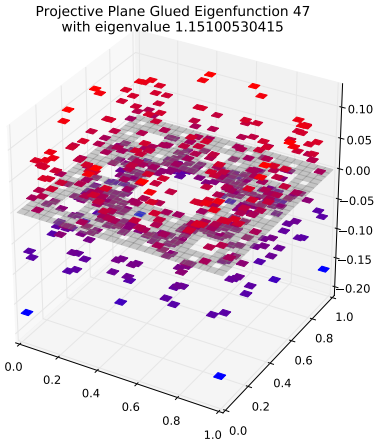
48 $M = 4$ Eigenfunction 47

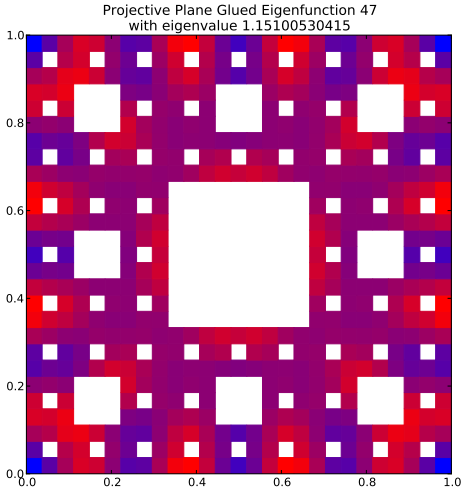
$M = 4$ Eigenfunction 47 has eigenvalue 0.190427583746





Compare to $m = 3$ eigenspace with eigenvalue 1.15100530415

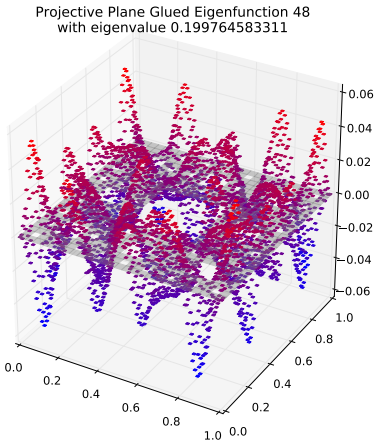


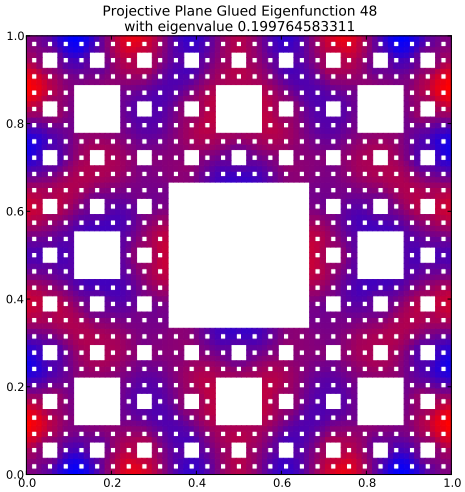


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.165444575328$
Dot Value: 0.004870754426623658

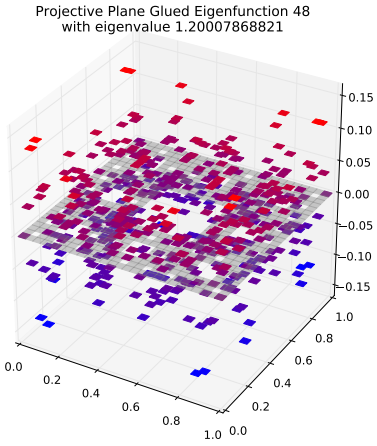
49 $M = 4$ Eigenfunction 48

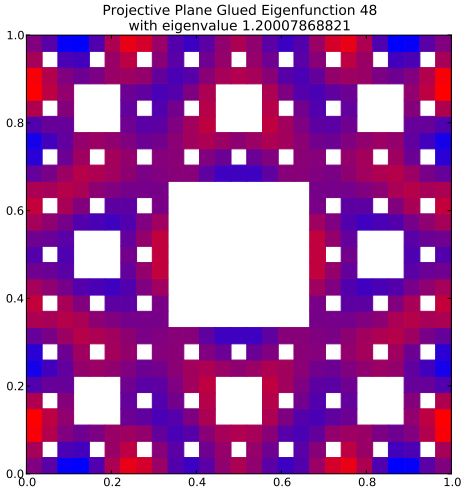
$M = 4$ Eigenfunction 48 has eigenvalue 0.199764583311





Compare to $m = 3$ eigenspace with eigenvalue 1.20007868821

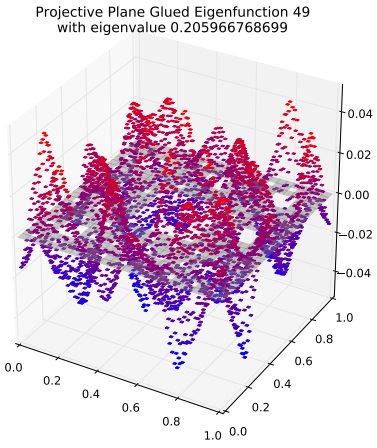


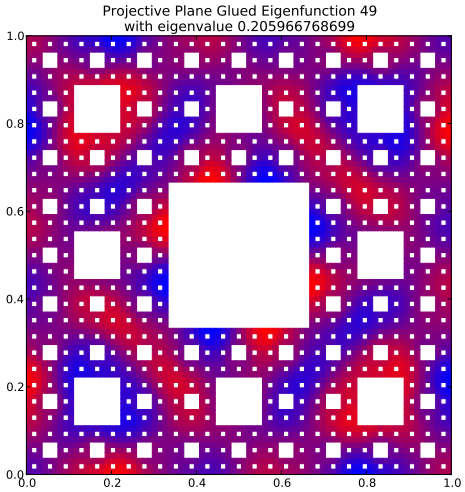


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.166459570755$
Dot Value: 0.006081335873622362

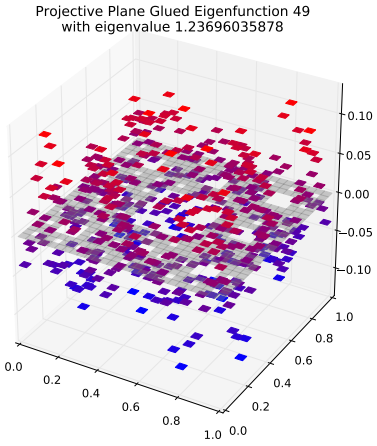
50 $M = 4$ Eigenfunction 49

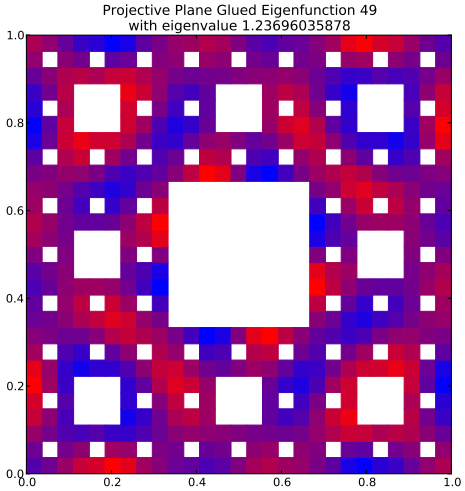
$M = 4$ Eigenfunction 49 has eigenvalue 0.205966768699





Compare to $m = 3$ eigenspace with eigenvalue 1.23696035878

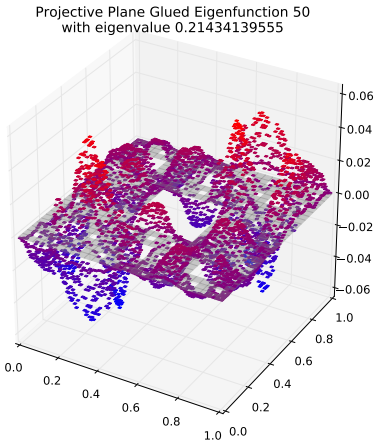


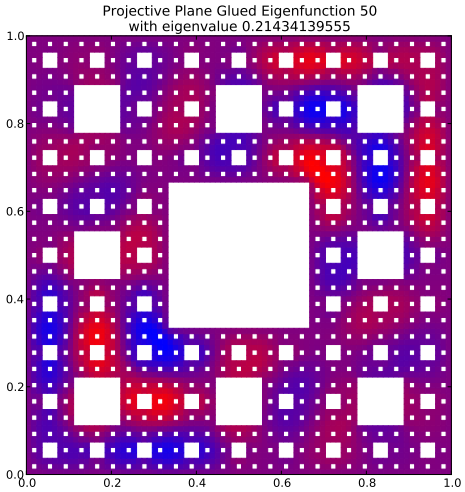


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.166510403698$
Dot Value: 0.004266017320709525

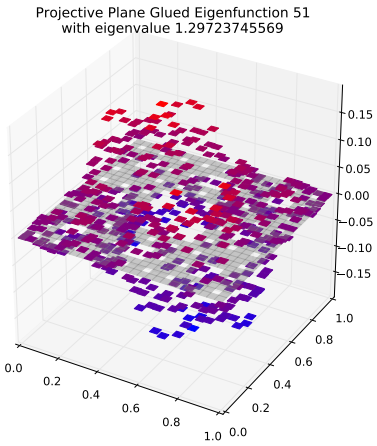
51 $M = 4$ Eigenfunction 50

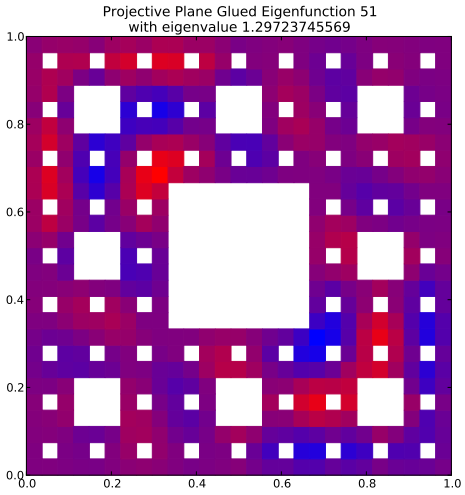
$M = 4$ Eigenfunction 50 has eigenvalue 0.21434139555





Compare to $m = 3$ eigenspace with eigenvalue 1.29723745569
(Note: Eigenspace Dimension > 1)

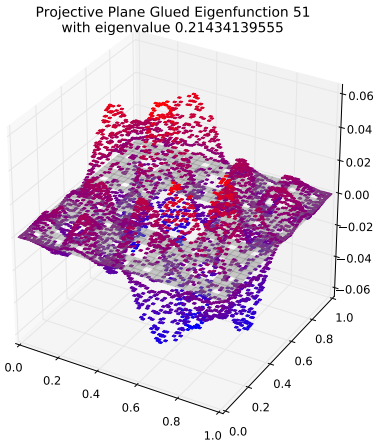


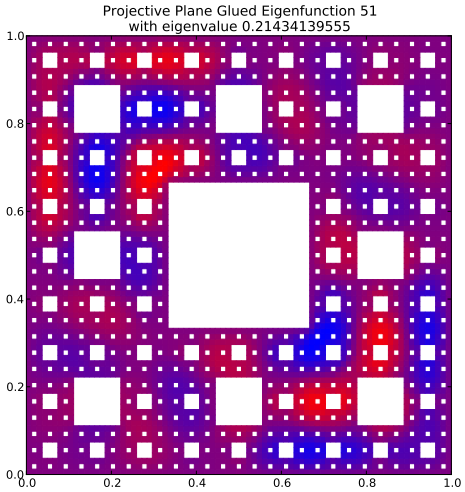


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.165229114076$
Dot Value: 0.0041323137165796275

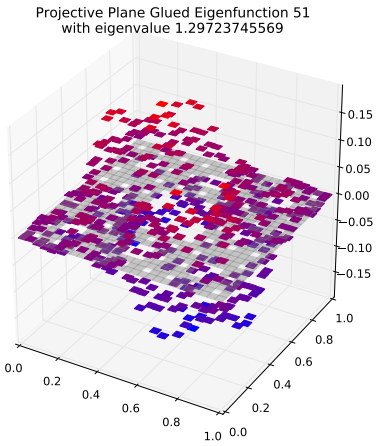
52 $M = 4$ Eigenfunction 51

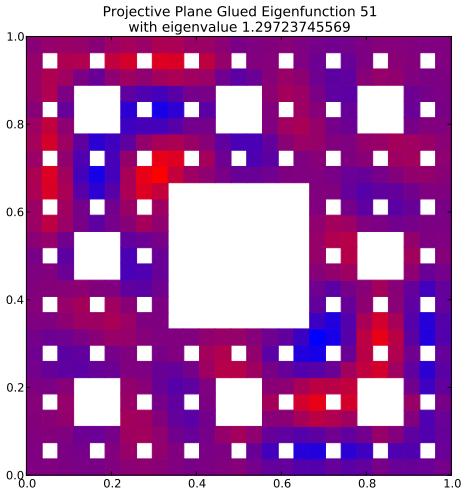
$M = 4$ Eigenfunction 51 has eigenvalue 0.21434139555





Compare to $m = 3$ eigenspace with eigenvalue 1.29723745569
(Note: Eigenspace Dimension > 1)

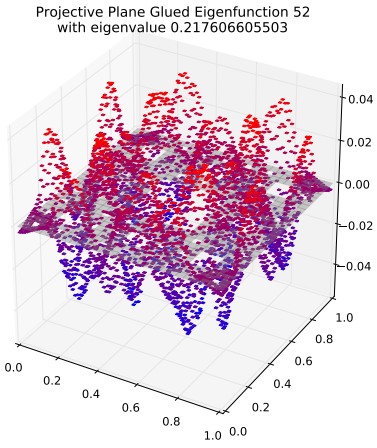


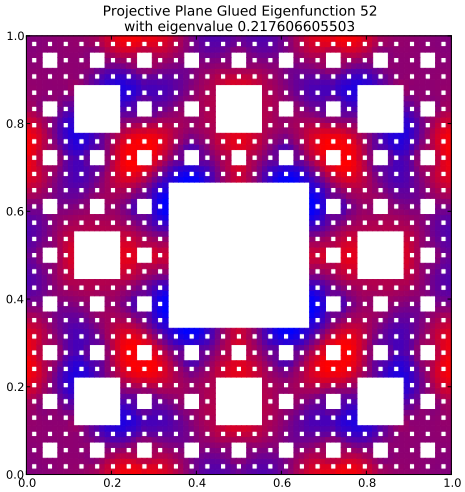


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.165229114076$
Dot Value: 0.004132313716579072

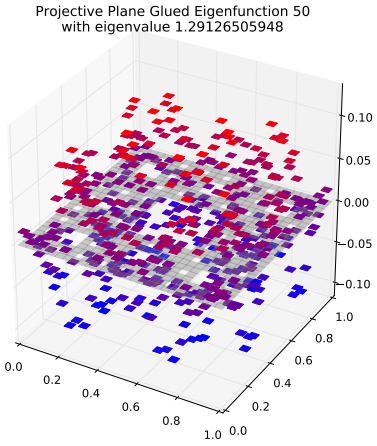
53 $M = 4$ Eigenfunction 52

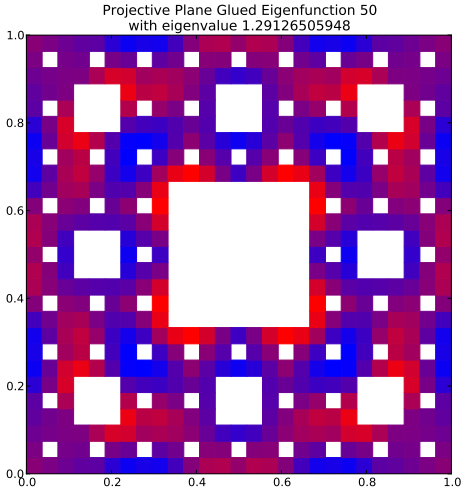
$M = 4$ Eigenfunction 52 has eigenvalue 0.217606605503





Compare to $m = 3$ eigenspace with eigenvalue 1.29126505948

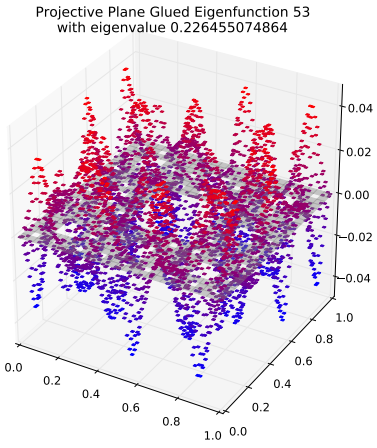


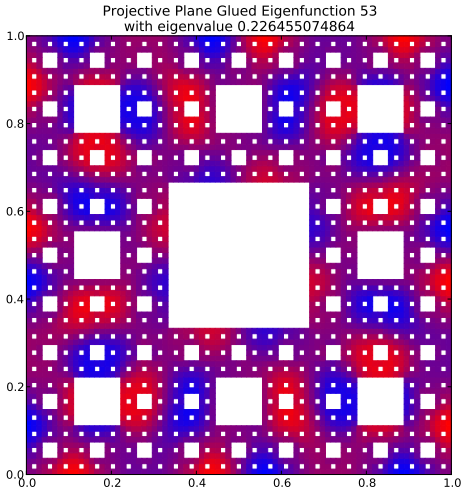


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.168522027221$
Dot Value: 0.007103347906352586

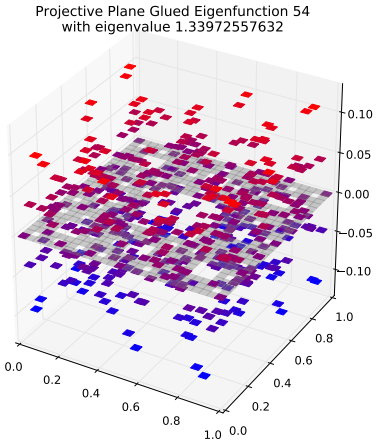
54 $M = 4$ Eigenfunction 53

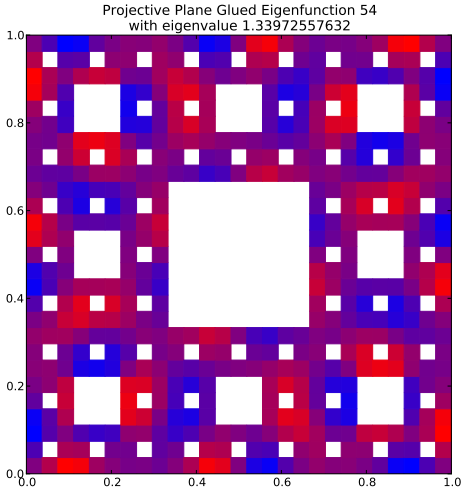
$M = 4$ Eigenfunction 53 has eigenvalue 0.226455074864





Compare to $m = 3$ eigenspace with eigenvalue 1.33972557632

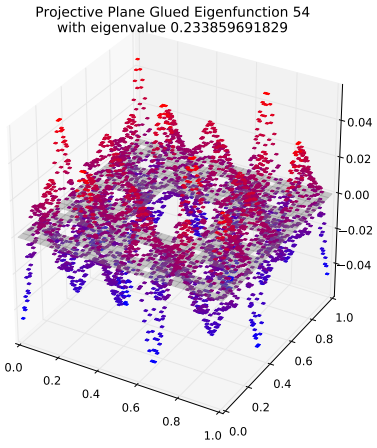


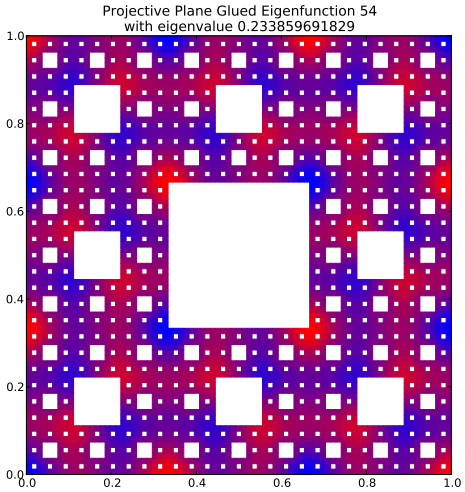


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.169030941013$
Dot Value: 0.010800152274692443

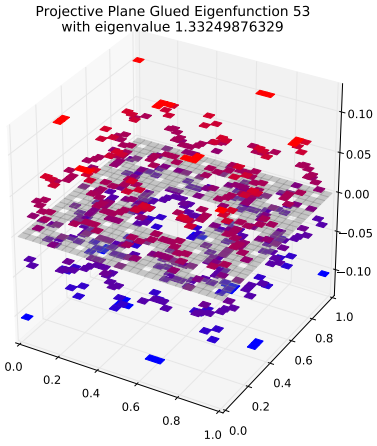
55 $M = 4$ Eigenfunction 54

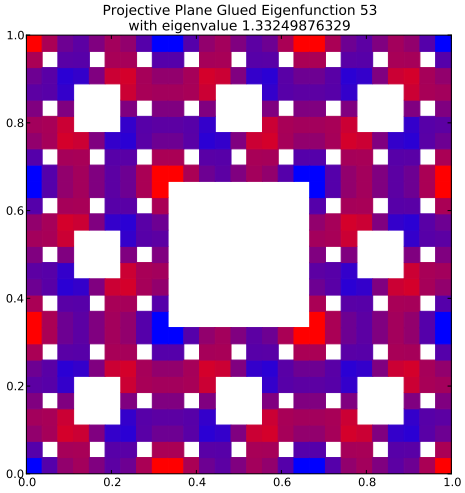
$M = 4$ Eigenfunction 54 has eigenvalue 0.233859691829





Compare to $m = 3$ eigenspace with eigenvalue 1.33249876329

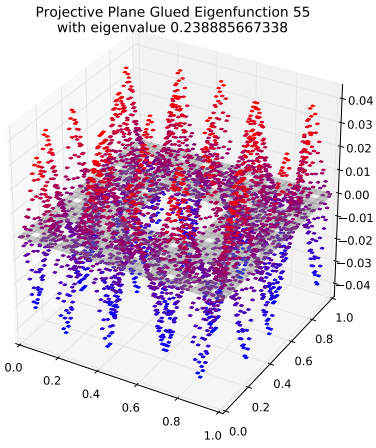


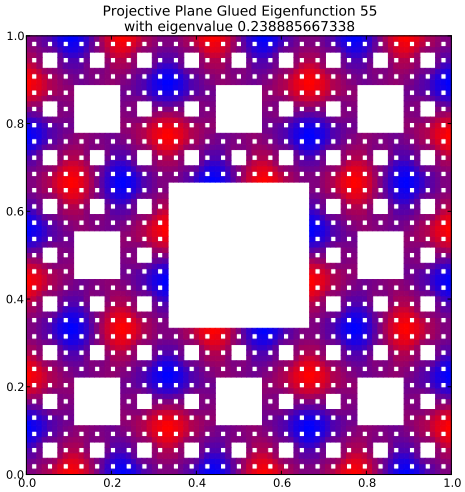


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.175504622047$
Dot Value: 0.00032834577856177827

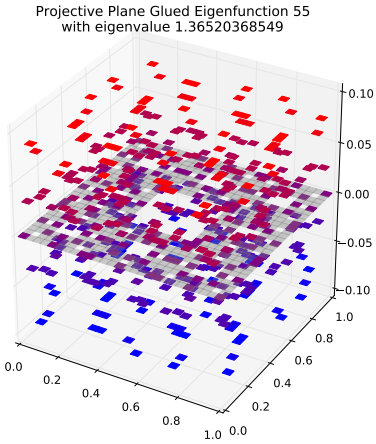
56 $M = 4$ Eigenfunction 55

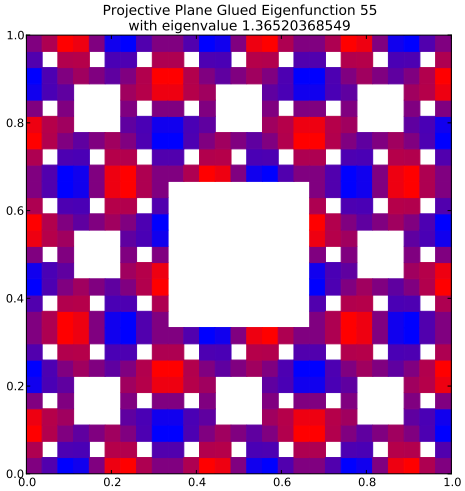
$M = 4$ Eigenfunction 55 has eigenvalue 0.238885667338





Compare to $m = 3$ eigenspace with eigenvalue 1.36520368549

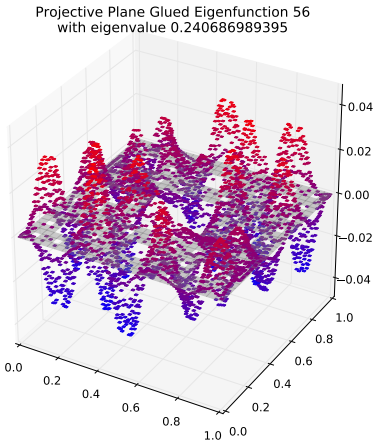


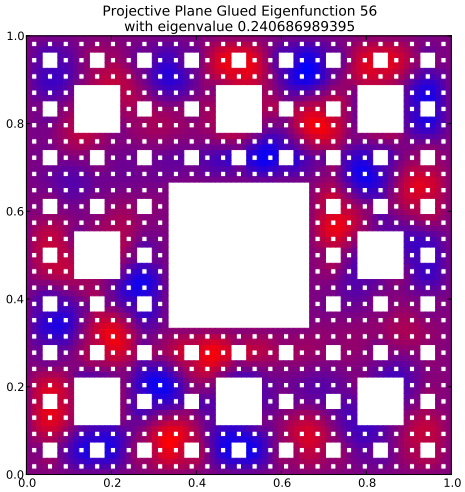


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.174981704106$
Dot Value: 0.0024135566193830282

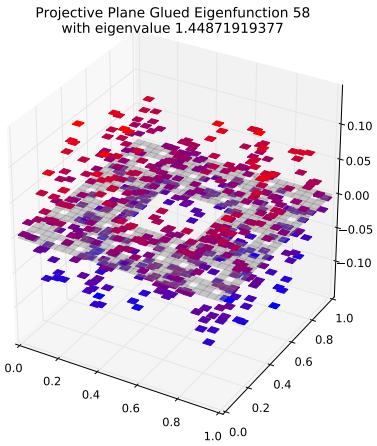
57 $M = 4$ Eigenfunction 56

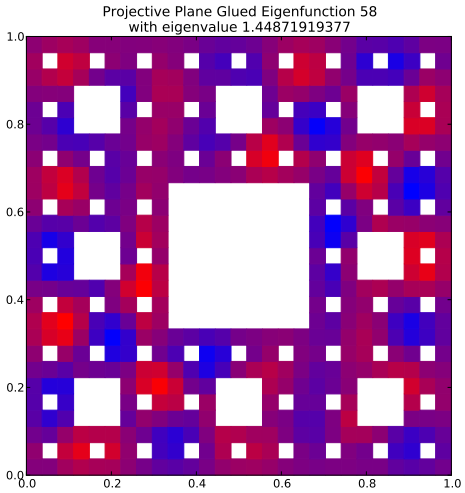
$M = 4$ Eigenfunction 56 has eigenvalue 0.240686989395





Compare to $m = 3$ eigenspace with eigenvalue 1.44871919377
(Note: Eigenspace Dimension > 1)

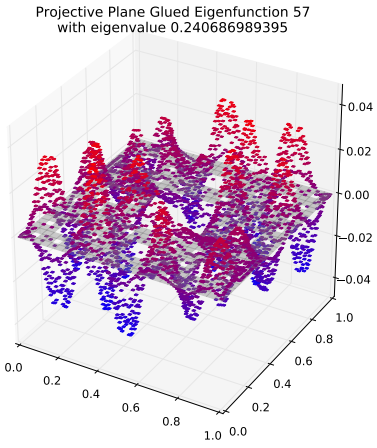


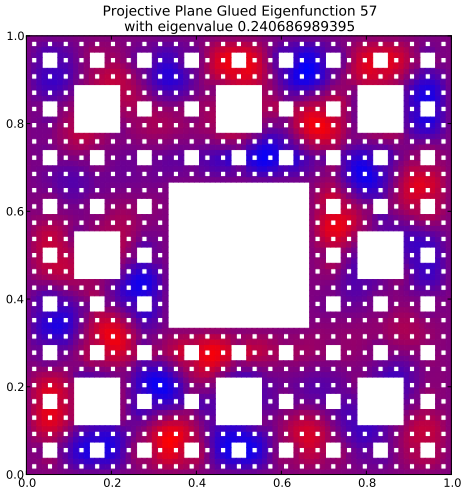


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.166137779102$
Dot Value: 0.00751674575894401

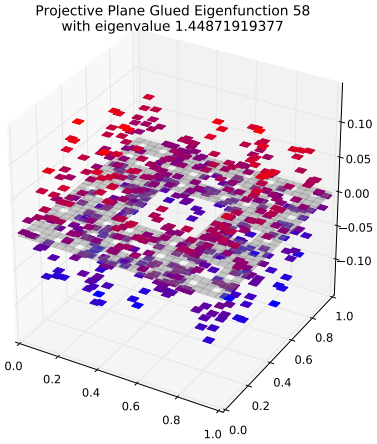
58 $M = 4$ Eigenfunction 57

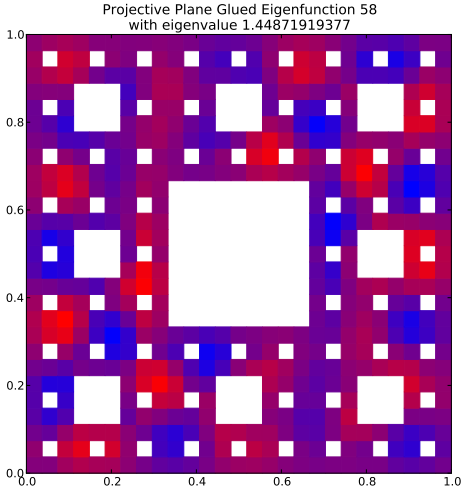
$M = 4$ Eigenfunction 57 has eigenvalue 0.240686989395





Compare to $m = 3$ eigenspace with eigenvalue 1.44871919377
(Note: Eigenspace Dimension > 1)

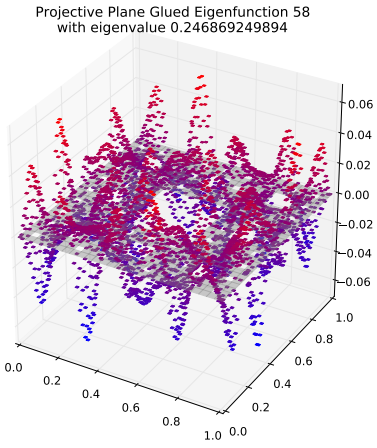


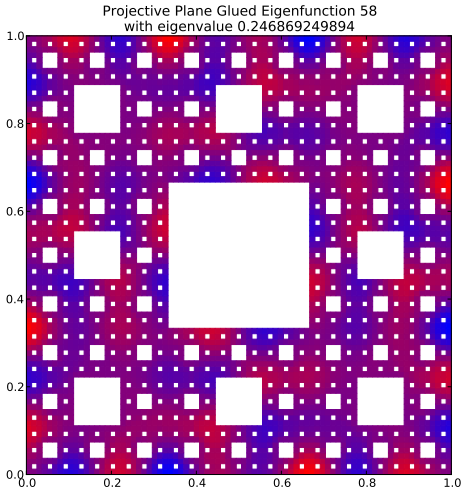


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.166137779102$
Dot Value: 0.0075167457589442 32

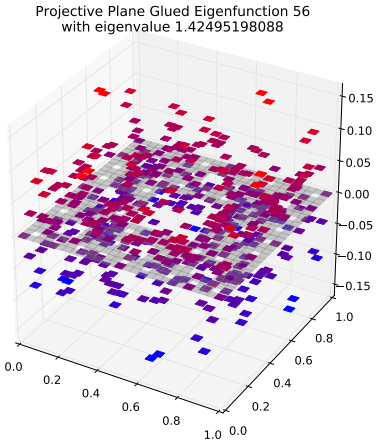
59 $M = 4$ Eigenfunction 58

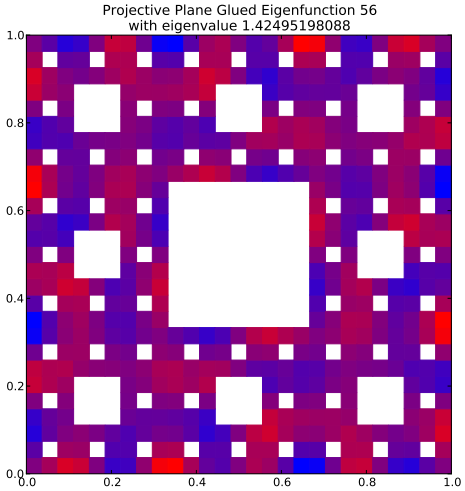
$M = 4$ Eigenfunction 58 has eigenvalue 0.246869249894





Compare to $m = 3$ eigenspace with eigenvalue 1.42495198088

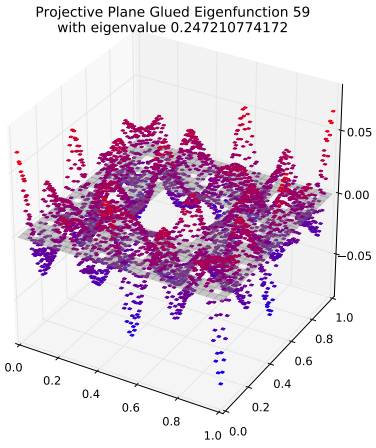


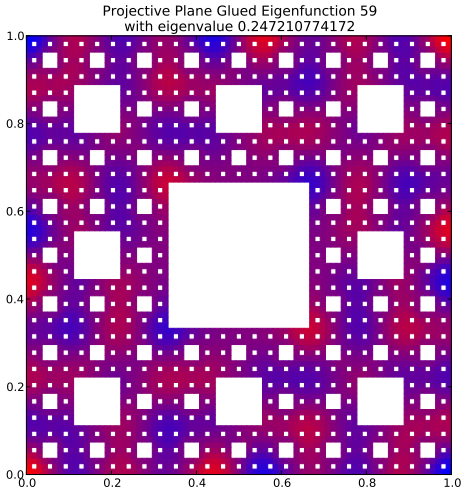


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.173247416899$
Dot Value: 0.007409271598425082

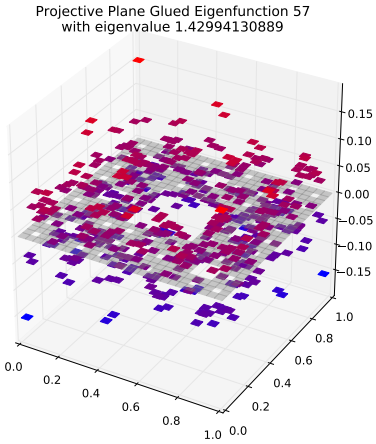
60 $M = 4$ Eigenfunction 59

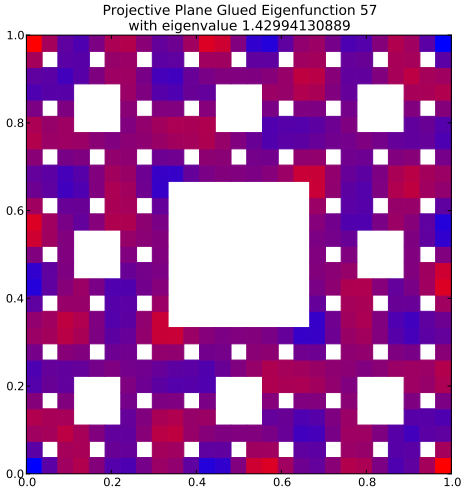
$M = 4$ Eigenfunction 59 has eigenvalue 0.247210774172





Compare to $m = 3$ eigenspace with eigenvalue 1.42994130889

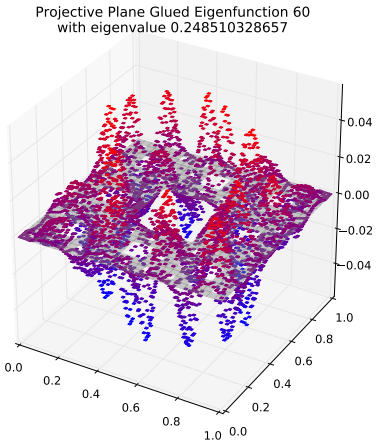


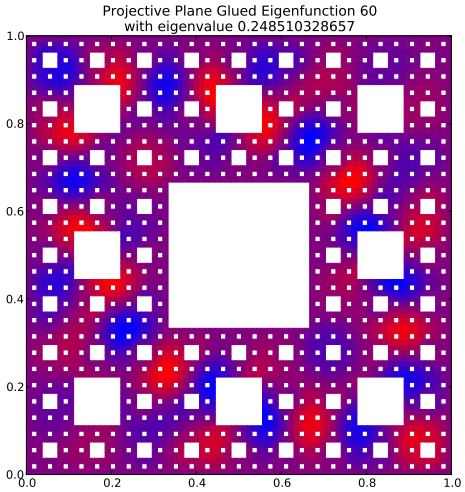


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.172881762794$
Dot Value: 0.007915762981241525

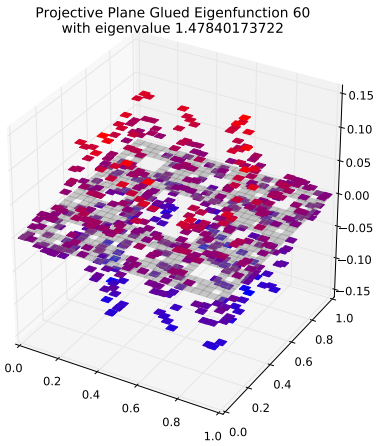
61 $M = 4$ Eigenfunction 60

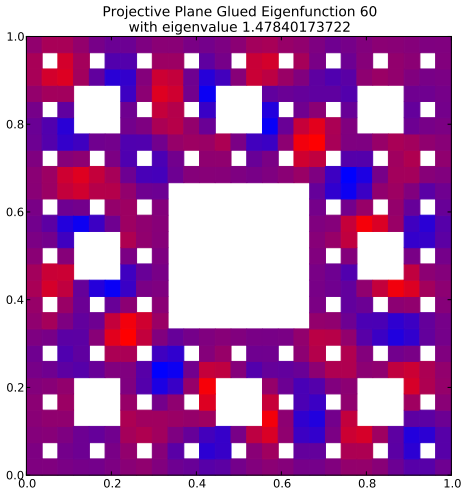
$M = 4$ Eigenfunction 60 has eigenvalue 0.248510328657





Compare to $m = 3$ eigenspace with eigenvalue 1.47840173722
(Note: Eigenspace Dimension > 1)

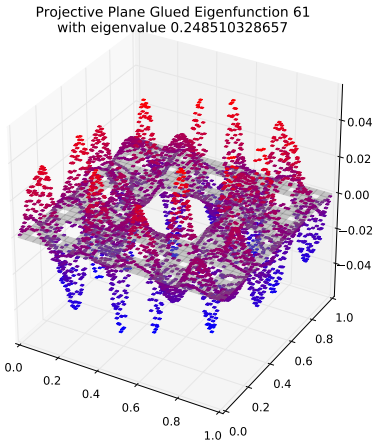


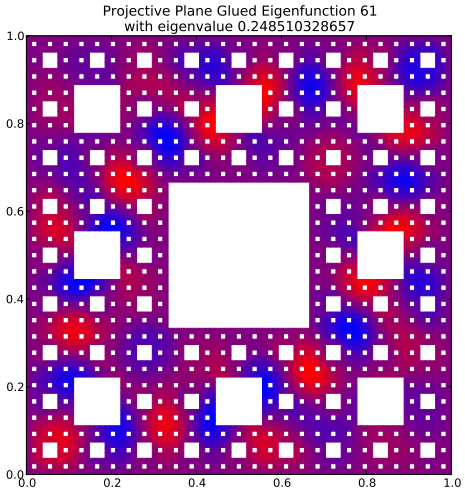


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.168093910065$
Dot Value: 0.018688832969823488

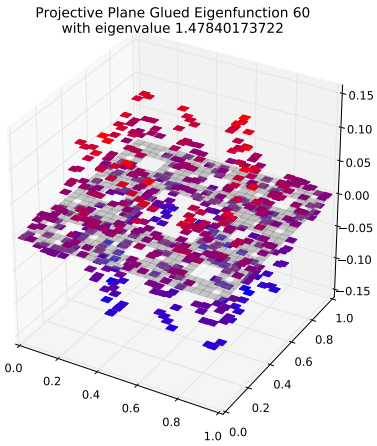
62 $M = 4$ Eigenfunction 61

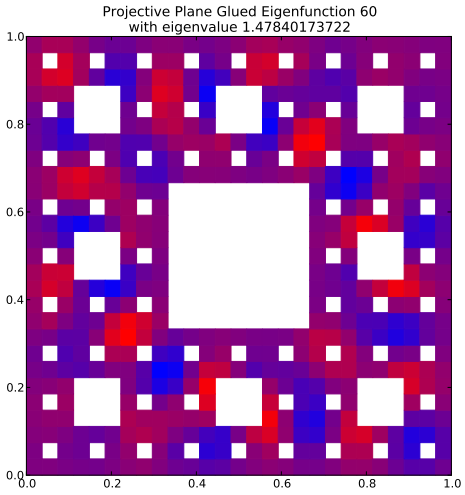
$M = 4$ Eigenfunction 61 has eigenvalue 0.248510328657





Compare to $m = 3$ eigenspace with eigenvalue 1.47840173722
(Note: Eigenspace Dimension > 1)

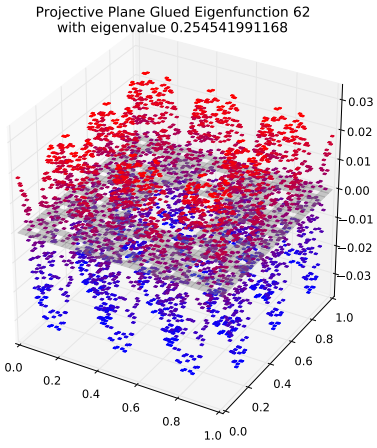


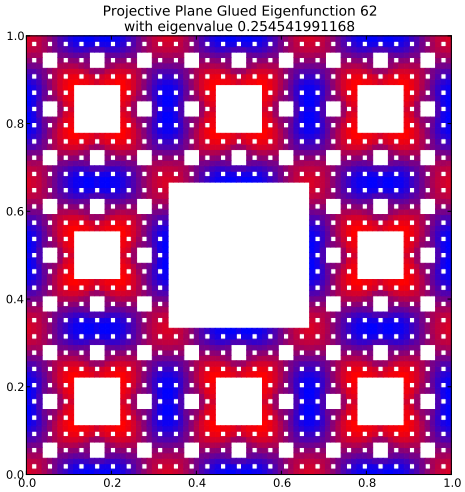


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.168093910065$
Dot Value: 0.01868883296982038

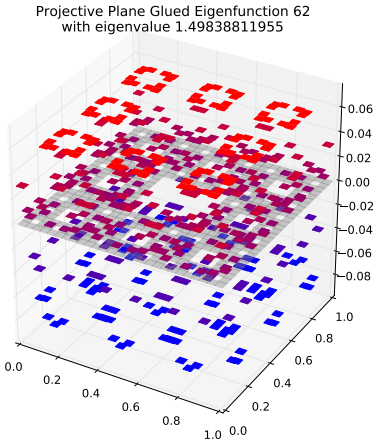
63 $M = 4$ Eigenfunction 62

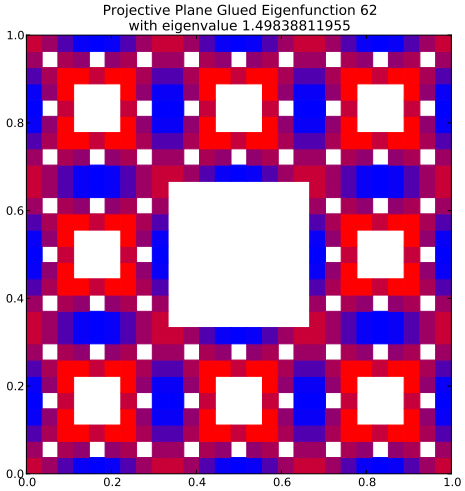
$M = 4$ Eigenfunction 62 has eigenvalue 0.254541991168





Compare to $m = 3$ eigenspace with eigenvalue 1.49838811955

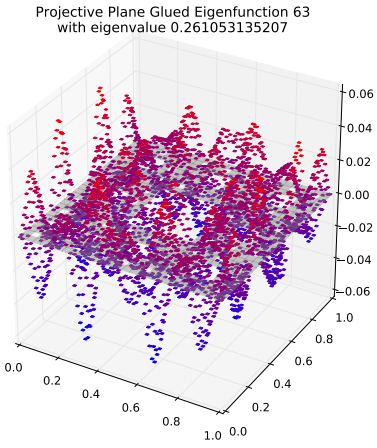


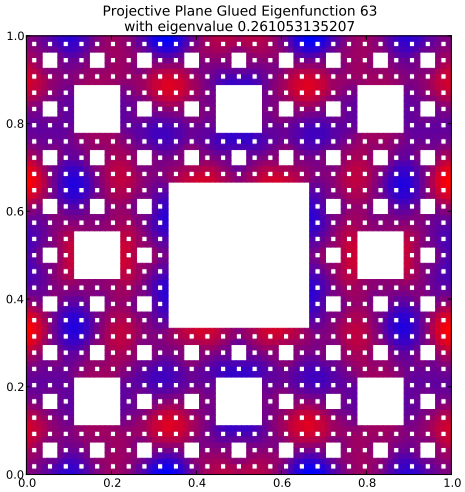


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.169877208613$
Dot Value: 0.011862172098635604

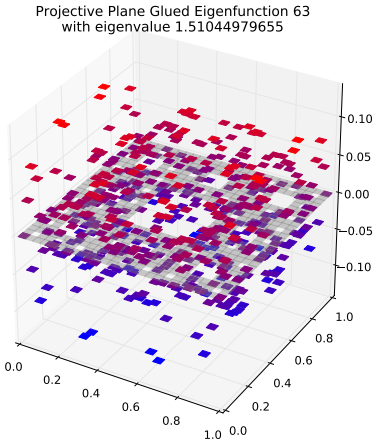
64 $M = 4$ Eigenfunction 63

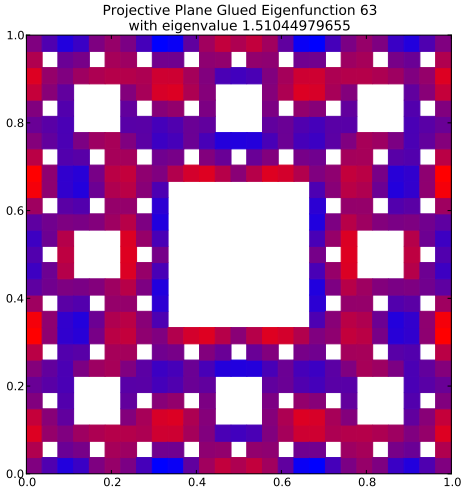
$M = 4$ Eigenfunction 63 has eigenvalue 0.261053135207





Compare to $m = 3$ eigenspace with eigenvalue 1.51044979655

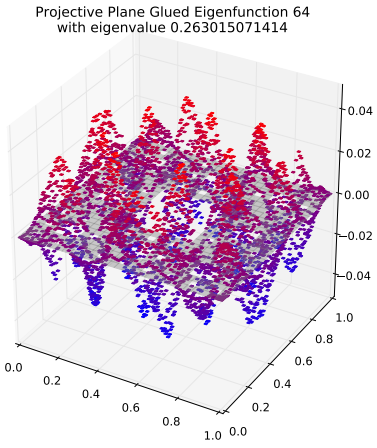


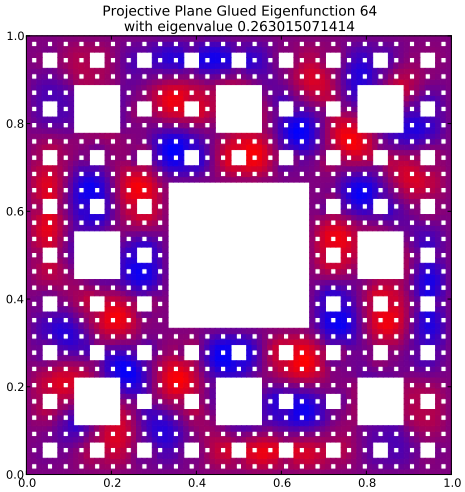


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.172831388242$
Dot Value: 0.013529887974388366

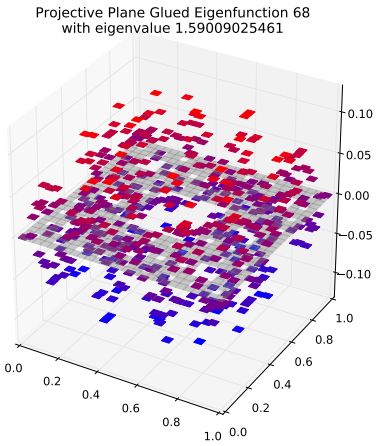
65 $M = 4$ Eigenfunction 64

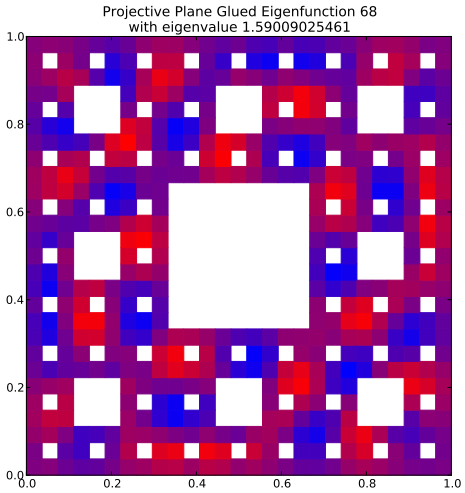
$M = 4$ Eigenfunction 64 has eigenvalue 0.263015071414





Compare to $m = 3$ eigenspace with eigenvalue 1.59009025461
(Note: Eigenspace Dimension > 1)

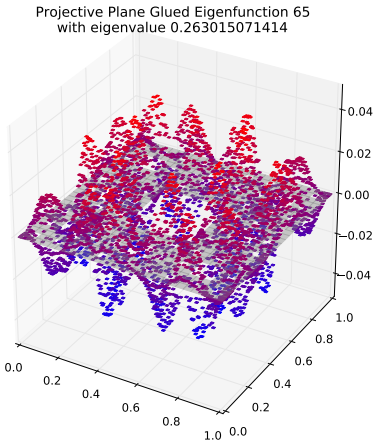


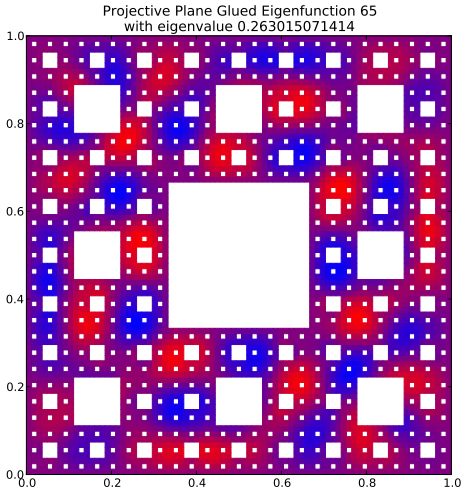


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.165408894653$
Dot Value: 0.012129980463191137

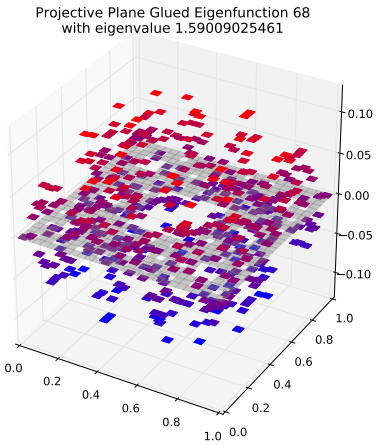
66 $M = 4$ Eigenfunction 65

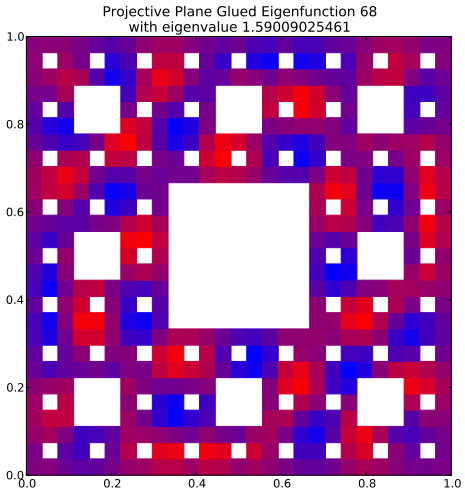
$M = 4$ Eigenfunction 65 has eigenvalue 0.263015071414





Compare to $m = 3$ eigenspace with eigenvalue 1.59009025461
(Note: Eigenspace Dimension > 1)

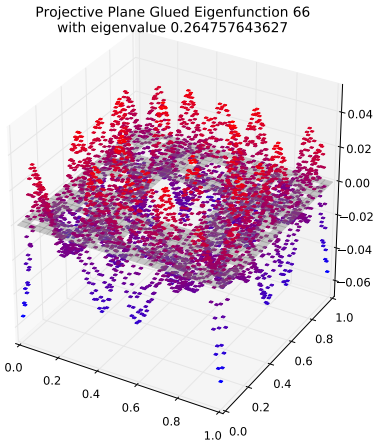


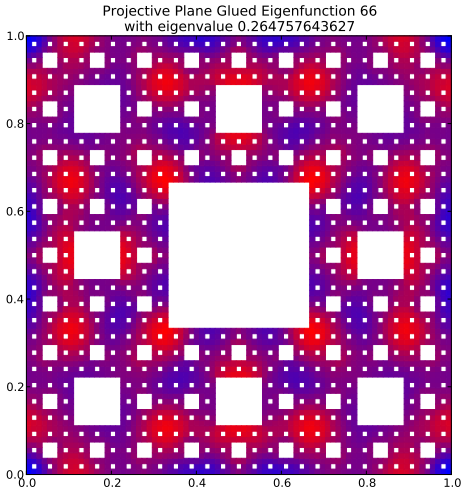


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.165408894653$
Dot Value: 0.012129980463189693

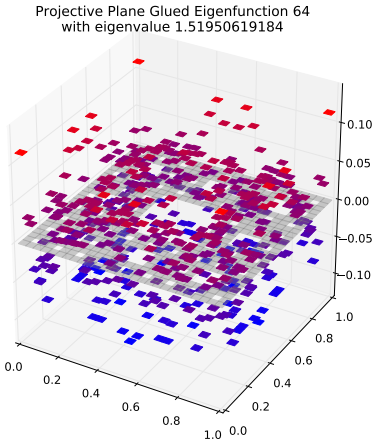
67 $M = 4$ Eigenfunction 66

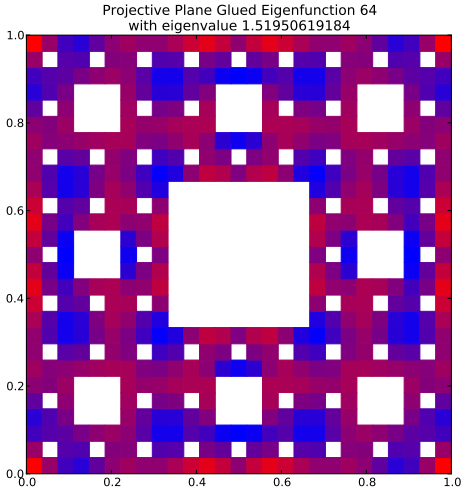
$M = 4$ Eigenfunction 66 has eigenvalue 0.264757643627





Compare to $m = 3$ eigenspace with eigenvalue 1.51950619184

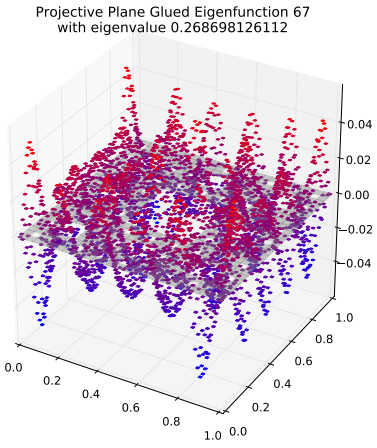


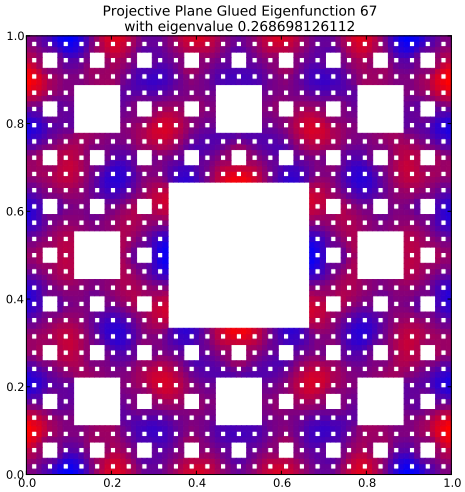


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.174239266051$
Dot Value: 0.026996307228455696

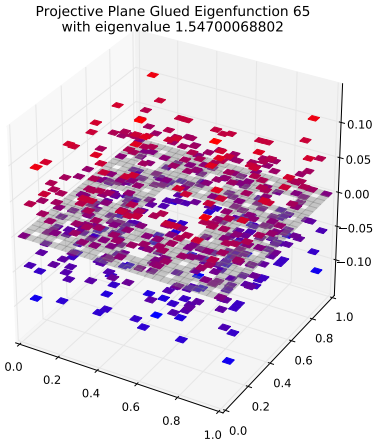
68 $M = 4$ Eigenfunction 67

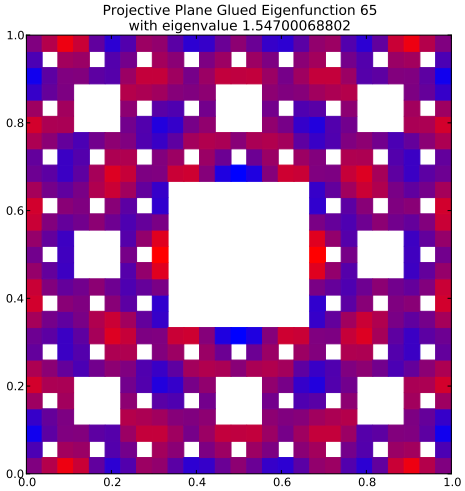
$M = 4$ Eigenfunction 67 has eigenvalue 0.268698126112





Compare to $m = 3$ eigenspace with eigenvalue 1.54700068802

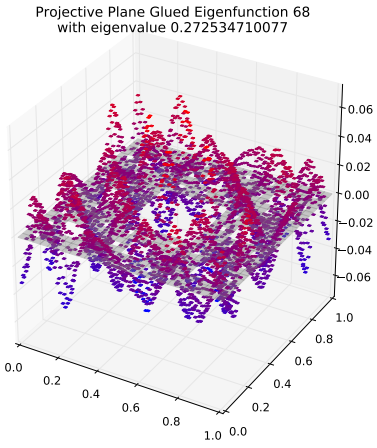


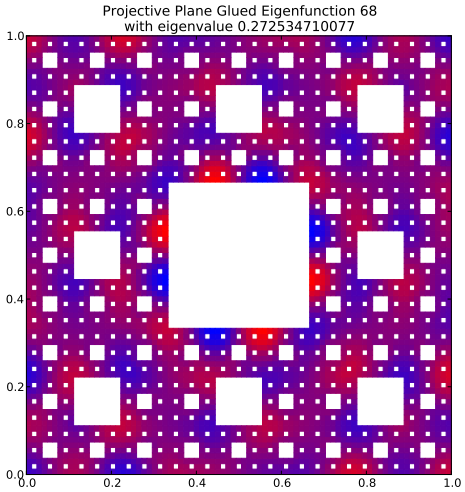


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.173689726315$
Dot Value: 0.011157460889872017

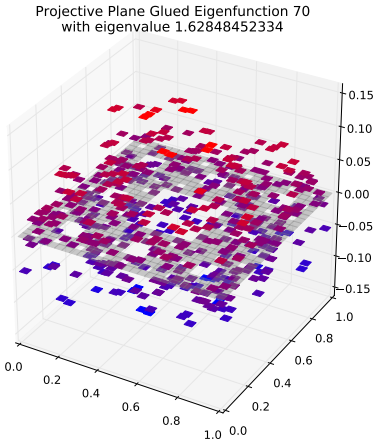
69 $M = 4$ Eigenfunction 68

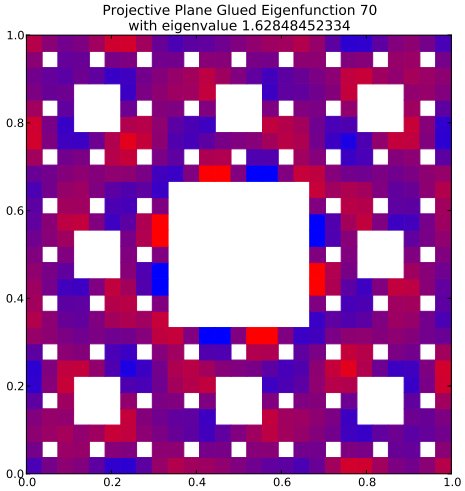
$M = 4$ Eigenfunction 68 has eigenvalue 0.272534710077





Compare to $m = 3$ eigenspace with eigenvalue 1.62848452334

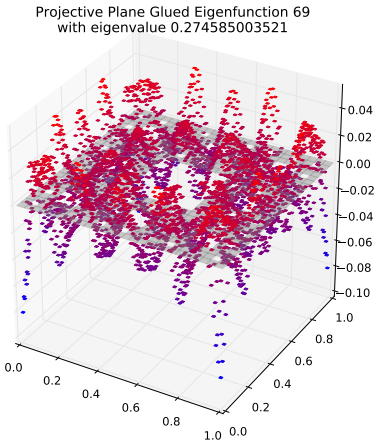


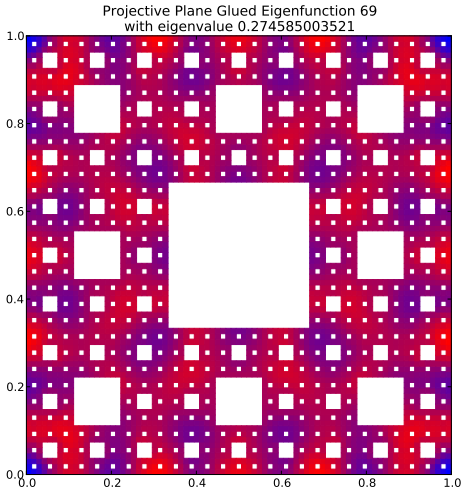


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.16735480514$
Dot Value: 0.044900109554458334

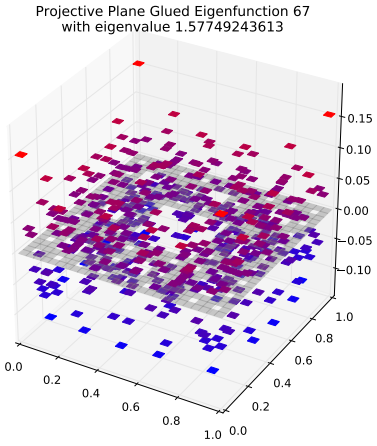
70 $M = 4$ Eigenfunction 69

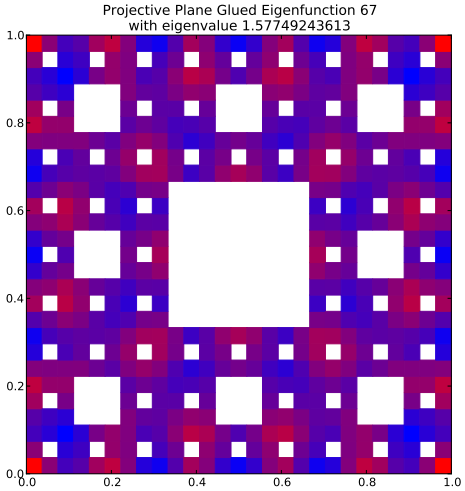
$M = 4$ Eigenfunction 69 has eigenvalue 0.274585003521





Compare to $m = 3$ eigenspace with eigenvalue 1.57749243613

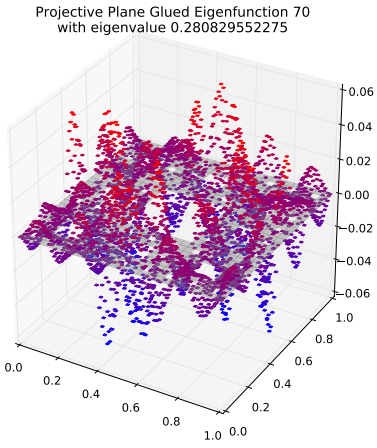


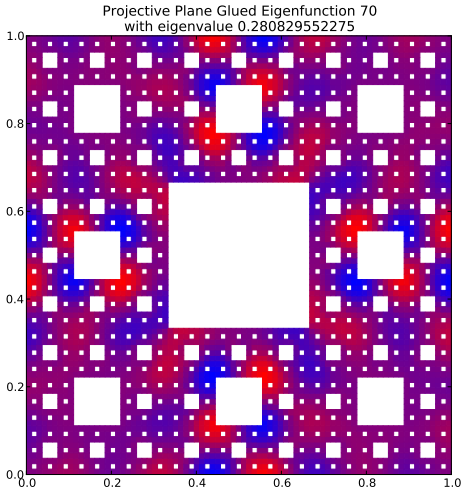


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.174064228285$
Dot Value: 0.01624720986502637

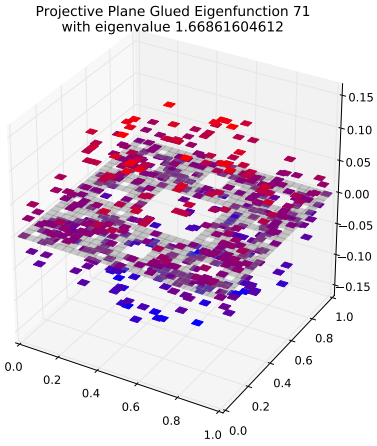
71 $M = 4$ Eigenfunction 70

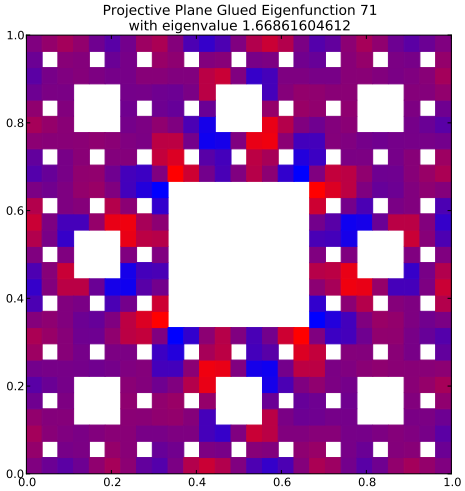
$M = 4$ Eigenfunction 70 has eigenvalue 0.280829552275





Compare to $m = 3$ eigenspace with eigenvalue 1.66861604612

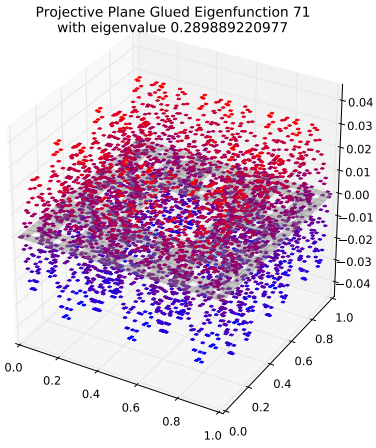


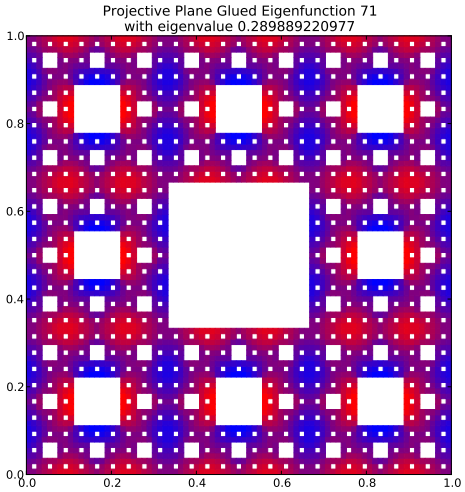


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.168300881996$
Dot Value: 0.1178965302680437

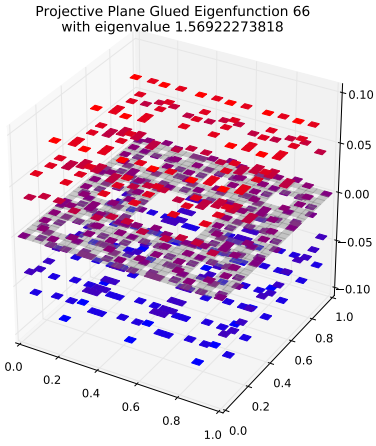
72 $M = 4$ Eigenfunction 71

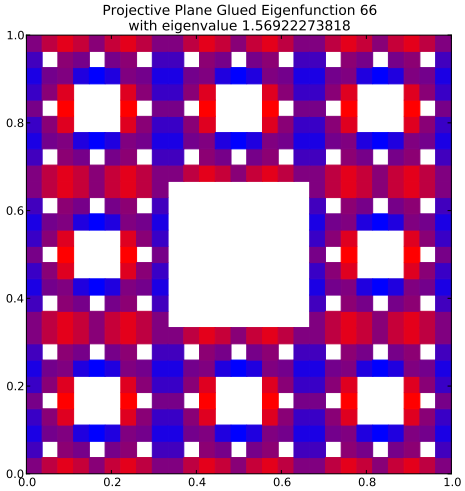
$M = 4$ Eigenfunction 71 has eigenvalue 0.289889220977





Compare to $m = 3$ eigenspace with eigenvalue 1.56922273818

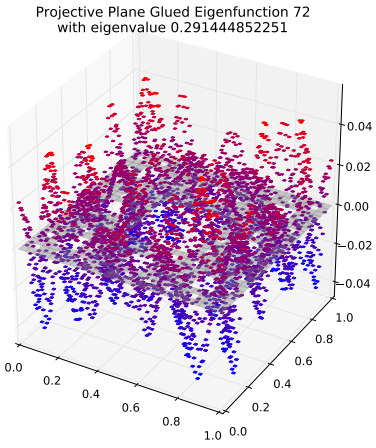


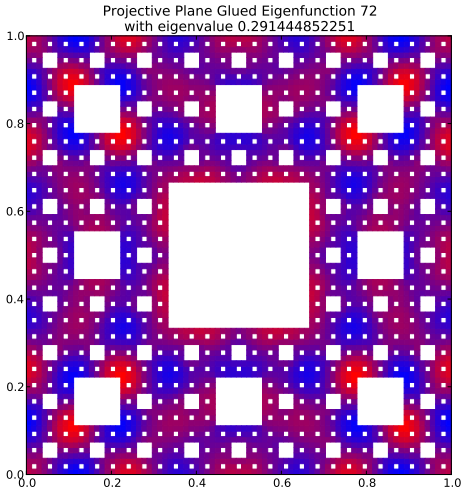


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.184734272531$
Dot Value: 0.0006826703997198091

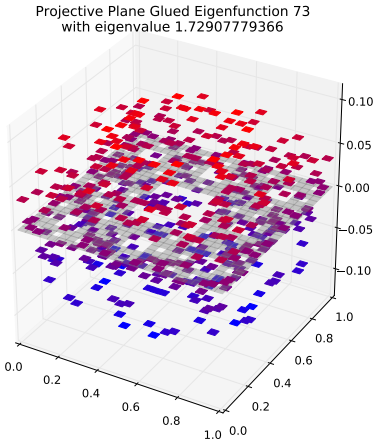
73 $M = 4$ Eigenfunction 72

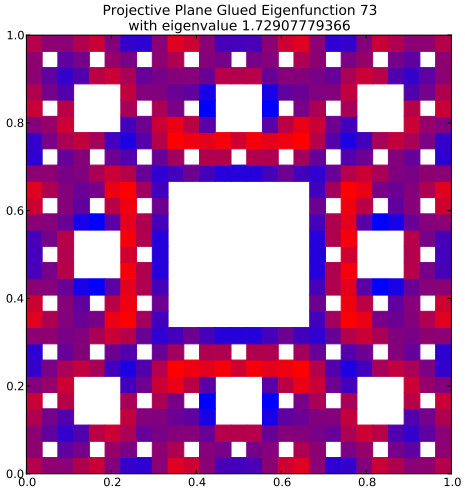
$M = 4$ Eigenfunction 72 has eigenvalue 0.291444852251





Compare to $m = 3$ eigenspace with eigenvalue 1.72907779366

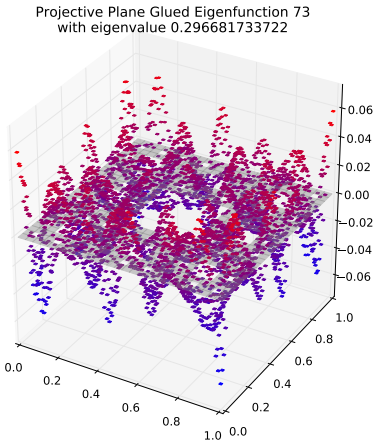


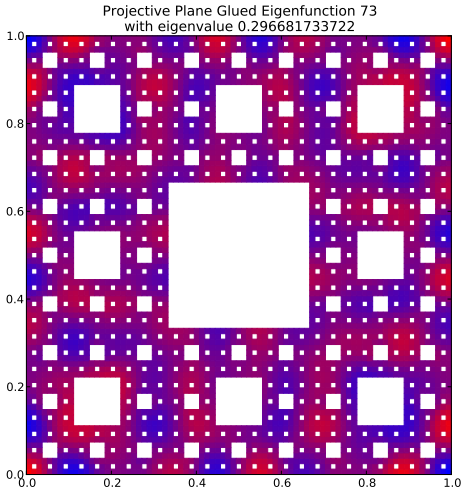


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.16855508371$
Dot Value: 0.2332481479960513

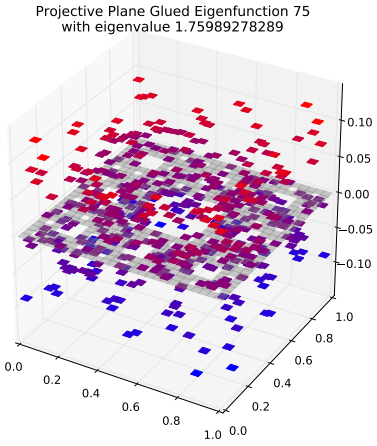
74 $M = 4$ Eigenfunction 73

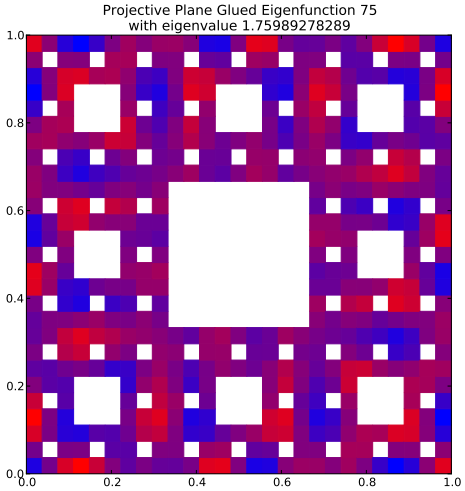
$M = 4$ Eigenfunction 73 has eigenvalue 0.296681733722





Compare to $m = 3$ eigenspace with eigenvalue 1.75989278289

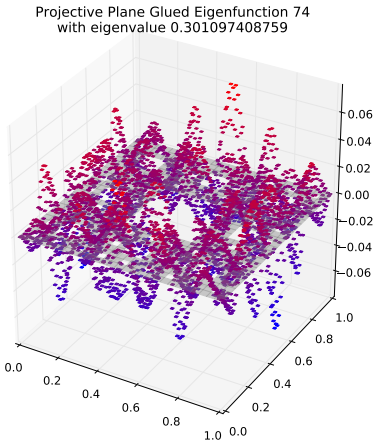


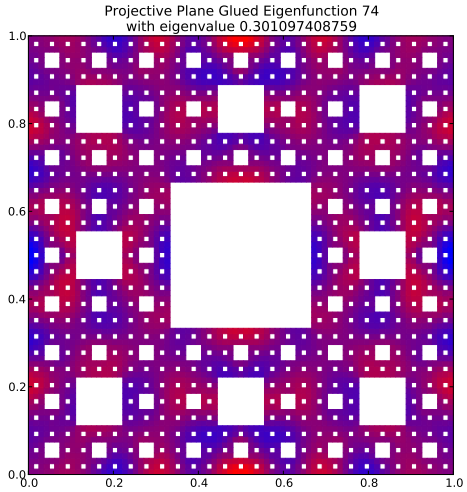


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.168579436547$
Dot Value: 0.06885356414974908

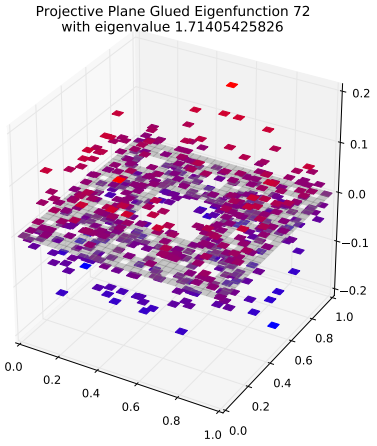
75 $M = 4$ Eigenfunction 74

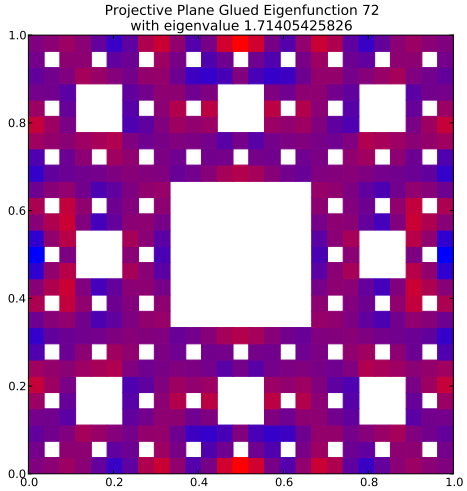
$M = 4$ Eigenfunction 74 has eigenvalue 0.301097408759





Compare to $m = 3$ eigenspace with eigenvalue 1.71405425826

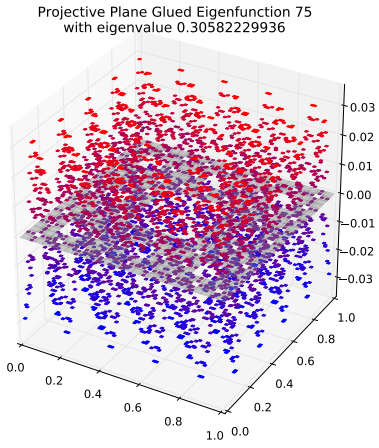


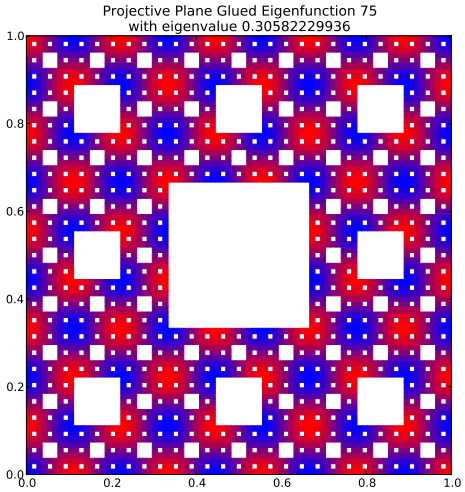


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.175663872545$
Dot Value: 0.02407375086011887

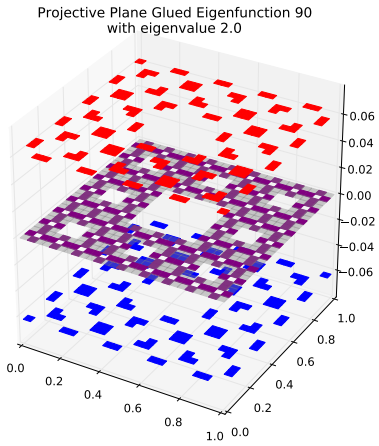
76 $M = 4$ Eigenfunction 75

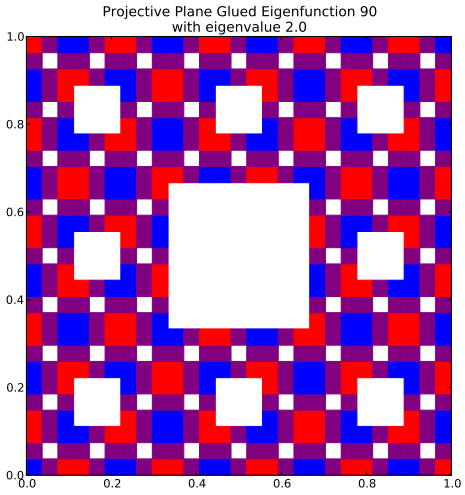
$M = 4$ Eigenfunction 75 has eigenvalue 0.30582229936





Compare to $m = 3$ eigenspace with eigenvalue 2.0
(Note: Eigenspace Dimension > 1)

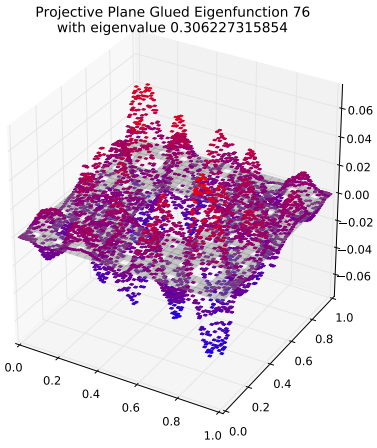


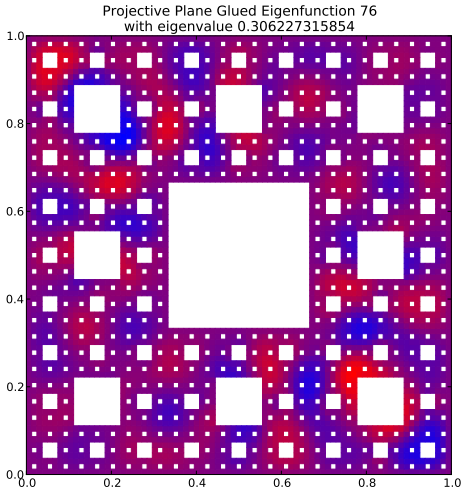


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.15291114968$
Dot Value: 0.0

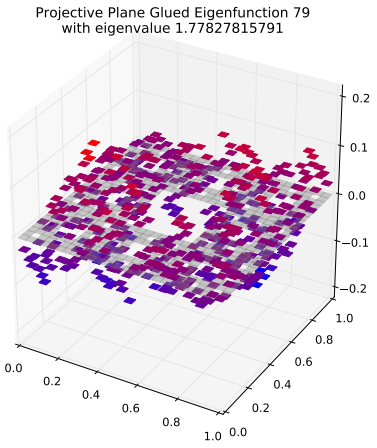
77 $M = 4$ Eigenfunction 76

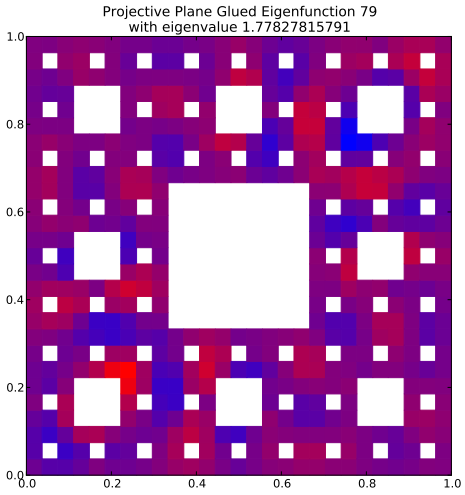
$M = 4$ Eigenfunction 76 has eigenvalue 0.306227315854





Compare to $m = 3$ eigenspace with eigenvalue 1.77827815791
(Note: Eigenspace Dimension > 1)

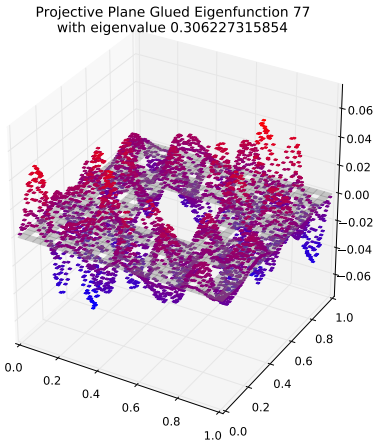


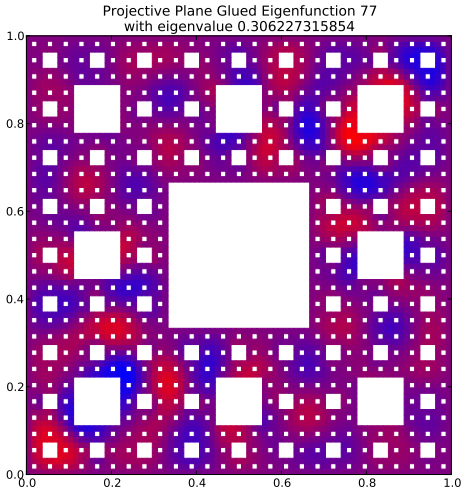


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.17220439586$
Dot Value: 0.030795989232556664

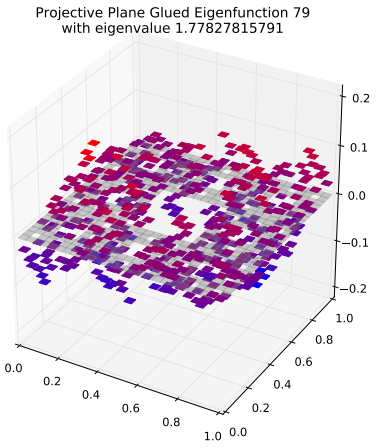
78 $M = 4$ Eigenfunction 77

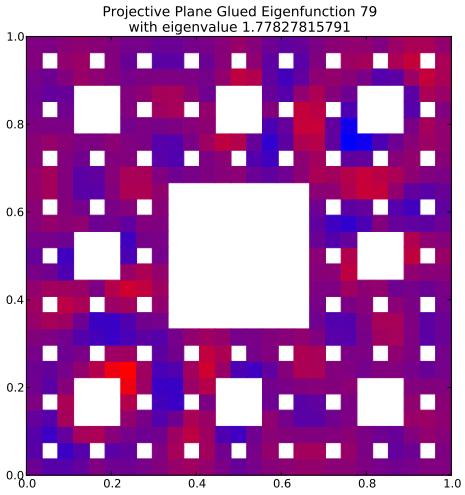
$M = 4$ Eigenfunction 77 has eigenvalue 0.306227315855





Compare to $m = 3$ eigenspace with eigenvalue 1.77827815791
(Note: Eigenspace Dimension > 1)

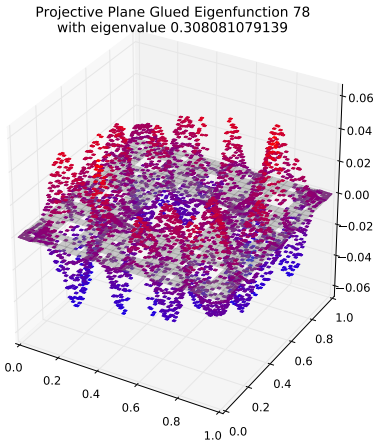


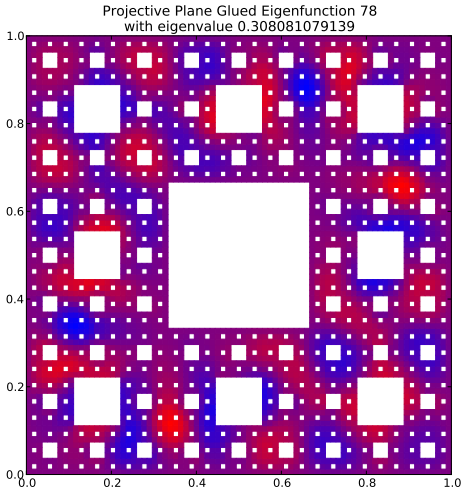


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.17220439586$
Dot Value: 0.030795989232554777

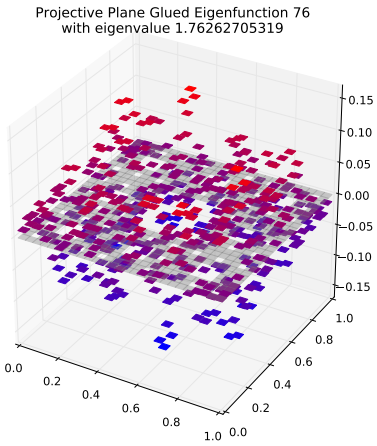
79 $M = 4$ Eigenfunction 78

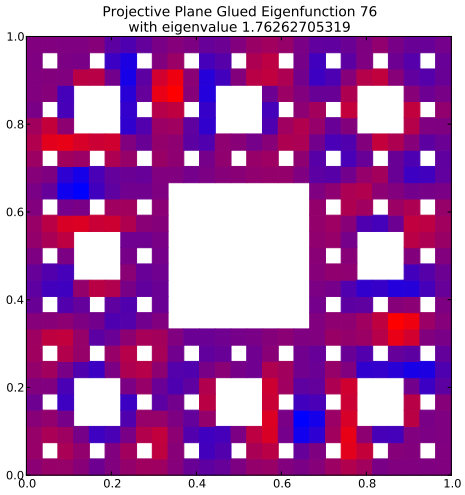
$M = 4$ Eigenfunction 78 has eigenvalue 0.308081079139





Compare to $m = 3$ eigenspace with eigenvalue 1.76262705319
(Note: Eigenspace Dimension > 1)

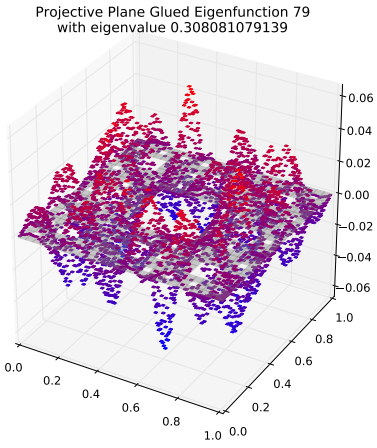


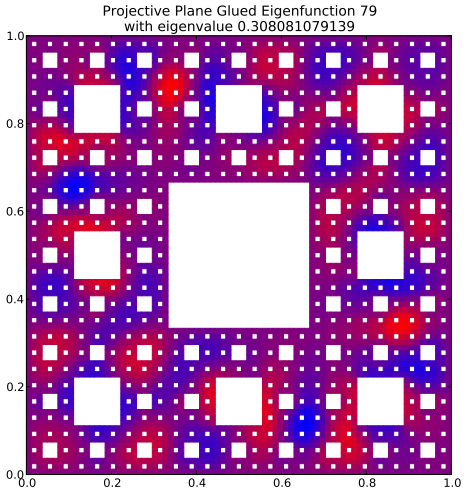


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.174785175674$
Dot Value: 0.032987769524609356

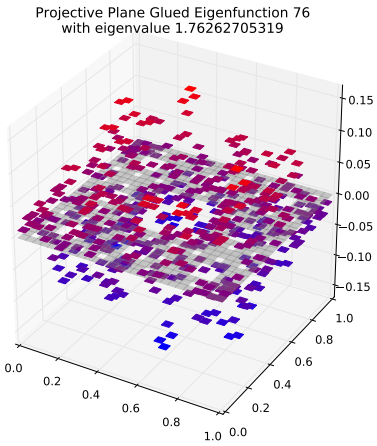
80 $M = 4$ Eigenfunction 79

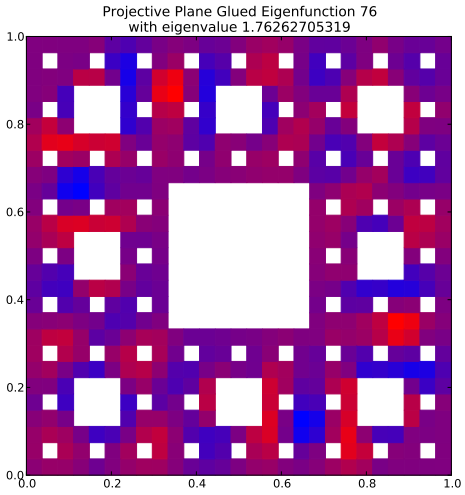
$M = 4$ Eigenfunction 79 has eigenvalue 0.308081079139





Compare to $m = 3$ eigenspace with eigenvalue 1.76262705319
(Note: Eigenspace Dimension > 1)

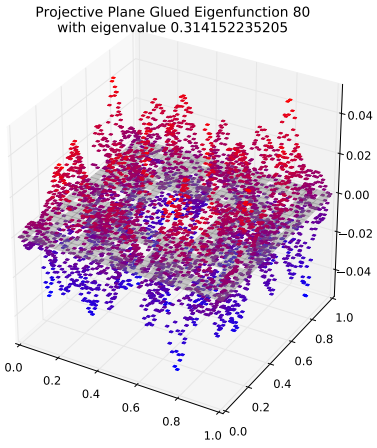


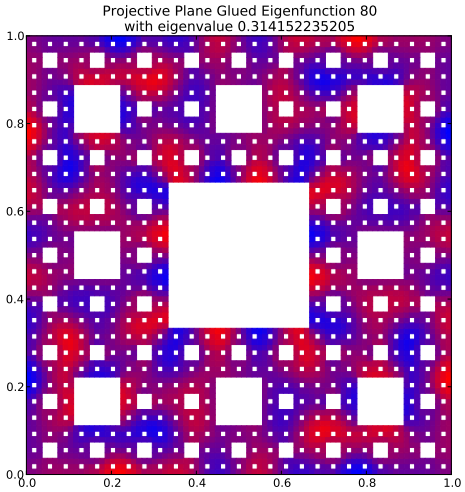


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.174785175674$
Dot Value: 0.032987769524618016

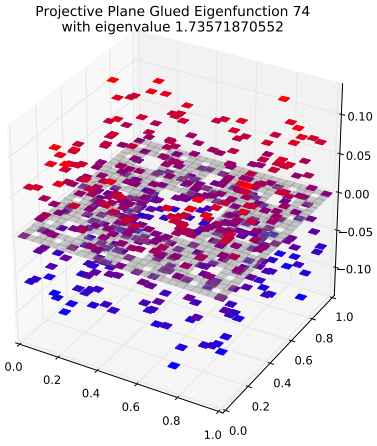
81 $M = 4$ Eigenfunction 80

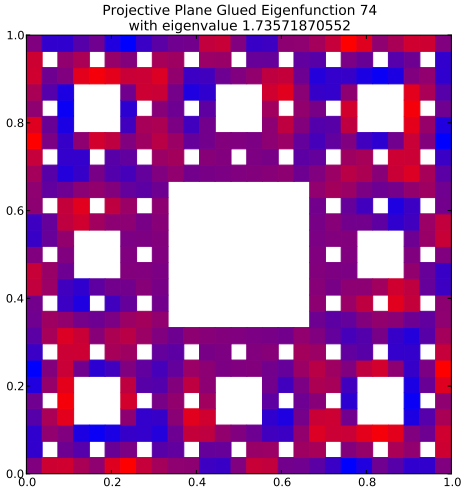
$M = 4$ Eigenfunction 80 has eigenvalue 0.314152235205





Compare to $m = 3$ eigenspace with eigenvalue 1.73571870552

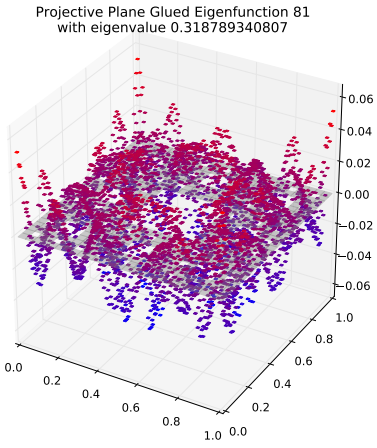


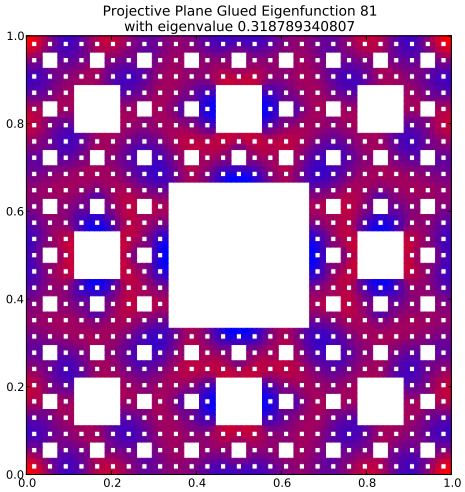


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.180992596441$
Dot Value: 0.20374379840550116

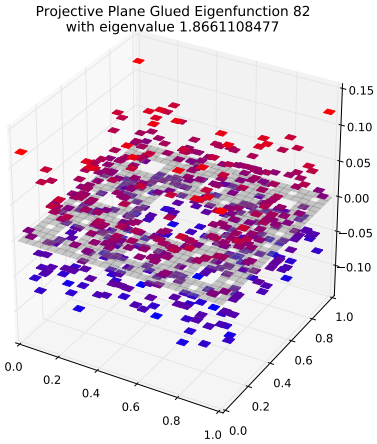
82 $M = 4$ Eigenfunction 81

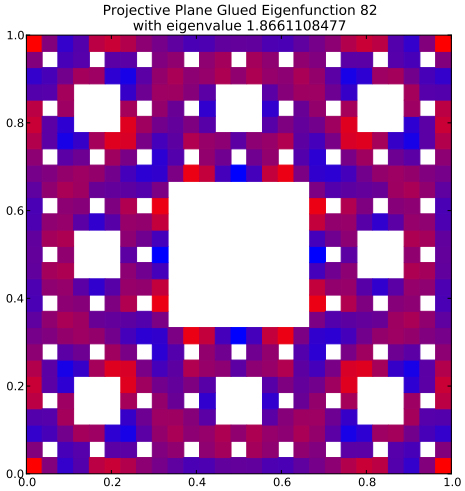
$M = 4$ Eigenfunction 81 has eigenvalue 0.318789340807





Compare to $m = 3$ eigenspace with eigenvalue 1.8661108477

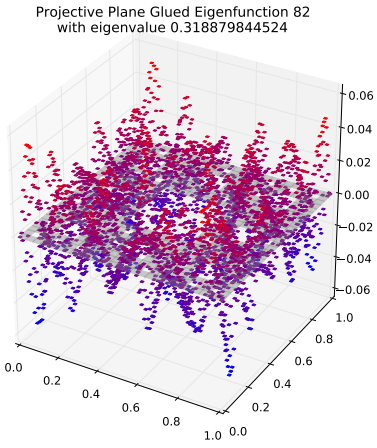


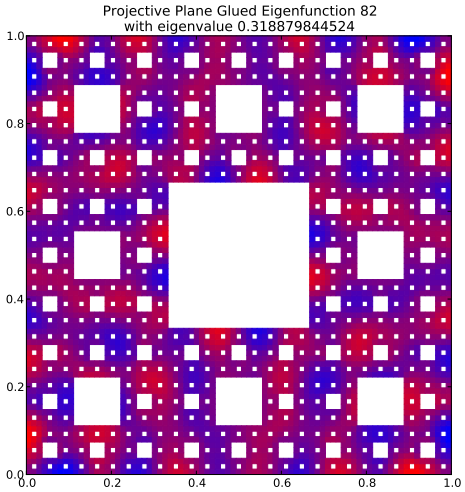


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.170830870631$
Dot Value: 0.25284513461677016

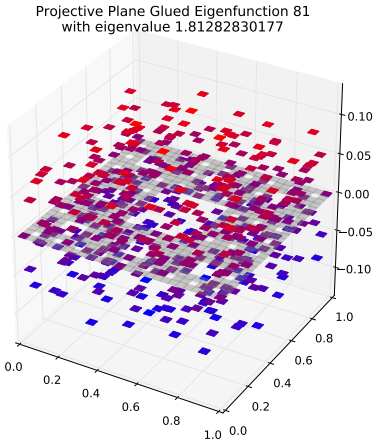
83 $M = 4$ Eigenfunction 82

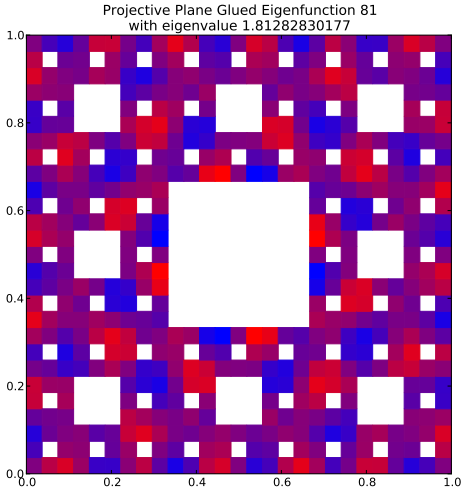
$M = 4$ Eigenfunction 82 has eigenvalue 0.318879844524





Compare to $m = 3$ eigenspace with eigenvalue 1.81282830177

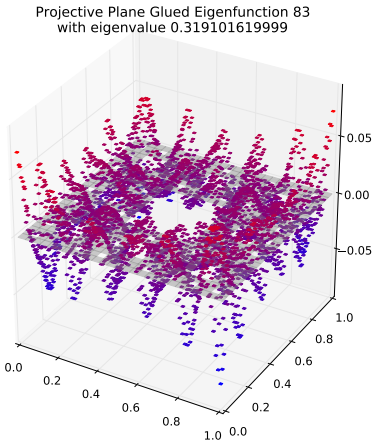


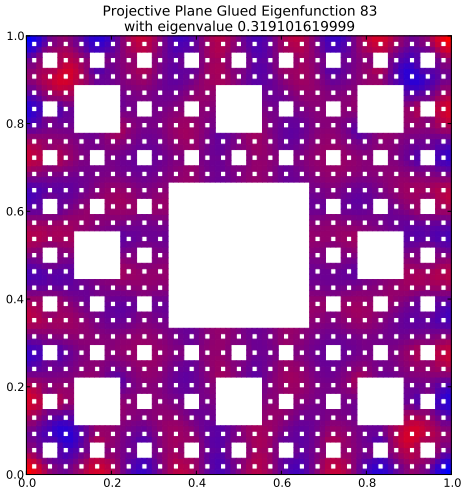


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.175901845869$
Dot Value: 0.18280624472698825

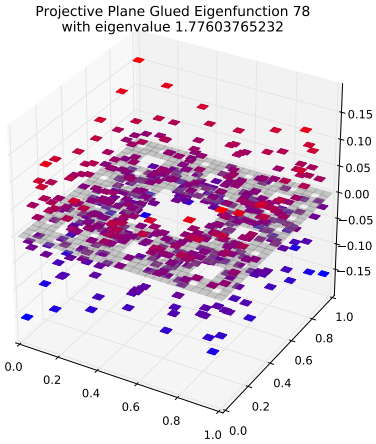
84 $M = 4$ Eigenfunction 83

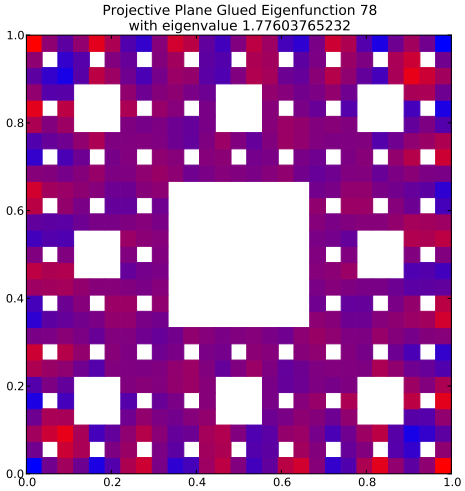
$M = 4$ Eigenfunction 83 has eigenvalue 0.319101619999





Compare to $m = 3$ eigenspace with eigenvalue 1.77603765232

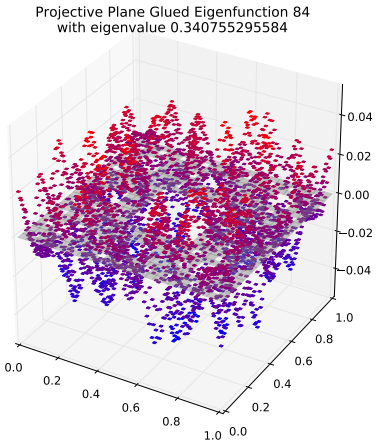


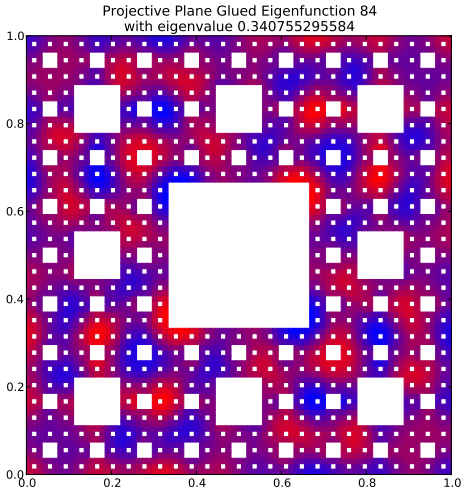


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.179670526457$
Dot Value: 0.054131320825988594

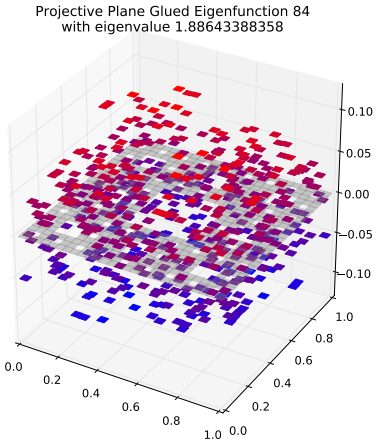
85 $M = 4$ Eigenfunction 84

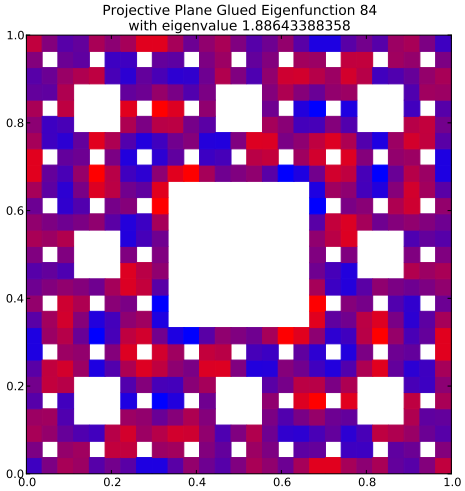
$M = 4$ Eigenfunction 84 has eigenvalue 0.340755295584





Compare to $m = 3$ eigenspace with eigenvalue 1.88643388358

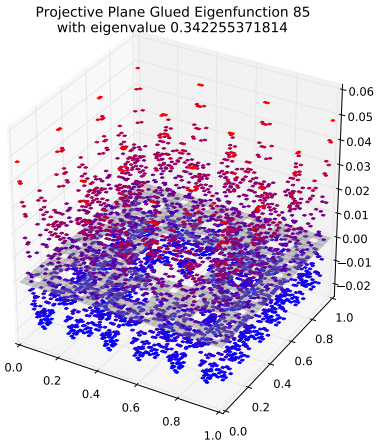


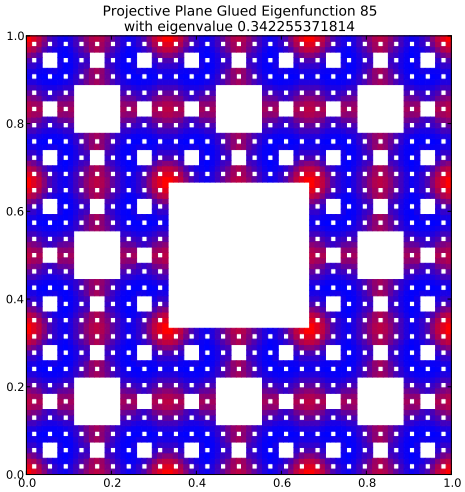


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.180634634773$
Dot Value: 0.06392479869118972

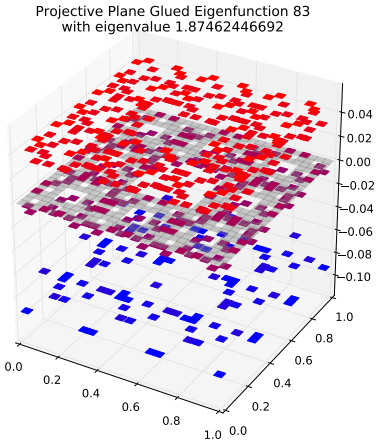
86 $M = 4$ Eigenfunction 85

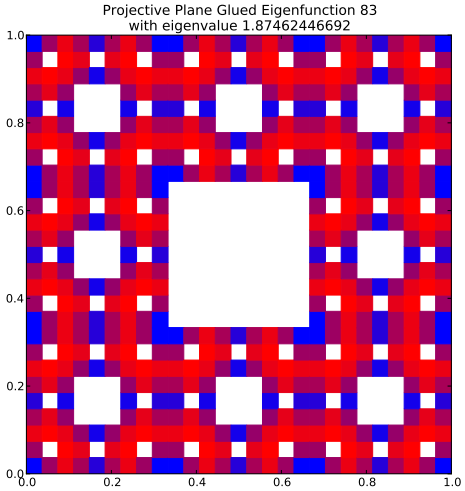
$M = 4$ Eigenfunction 85 has eigenvalue 0.342255371814





Compare to $m = 3$ eigenspace with eigenvalue 1.87462446692

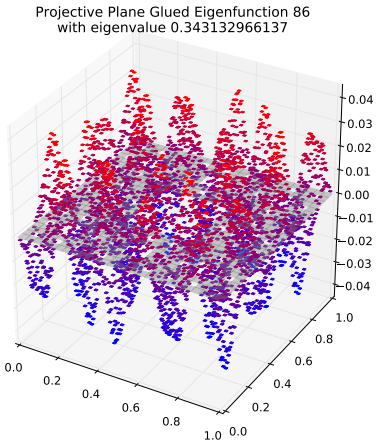


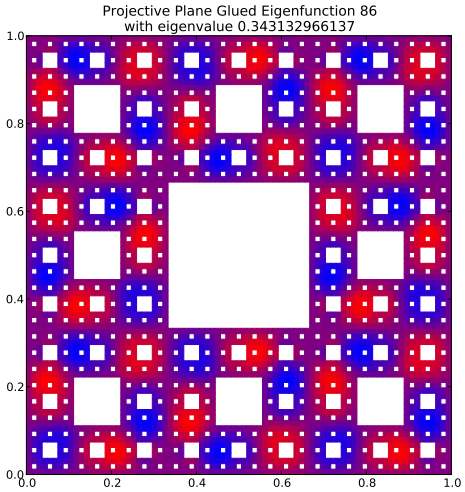


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.182572764761$
Dot Value: 0.029416001032021244

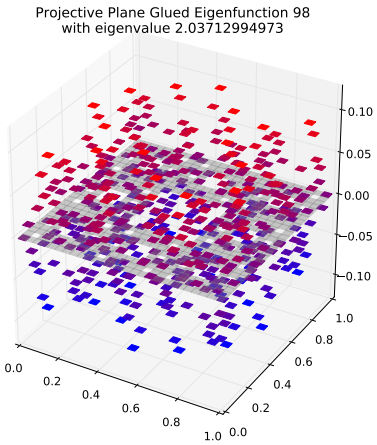
87 $M = 4$ Eigenfunction 86

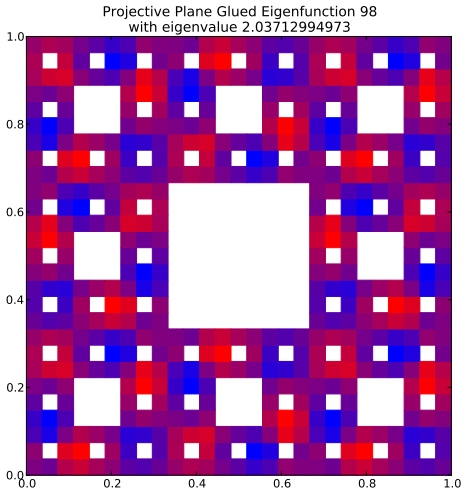
$M = 4$ Eigenfunction 86 has eigenvalue 0.343132966137





Compare to $m = 3$ eigenspace with eigenvalue 2.03712994973
(Note: Eigenspace Dimension > 1)

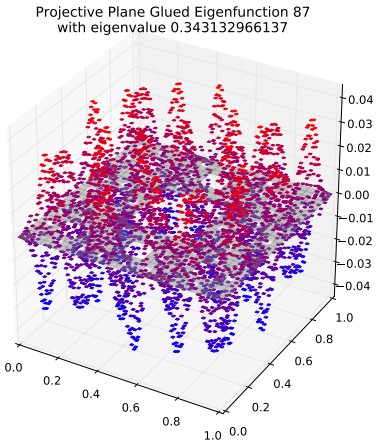


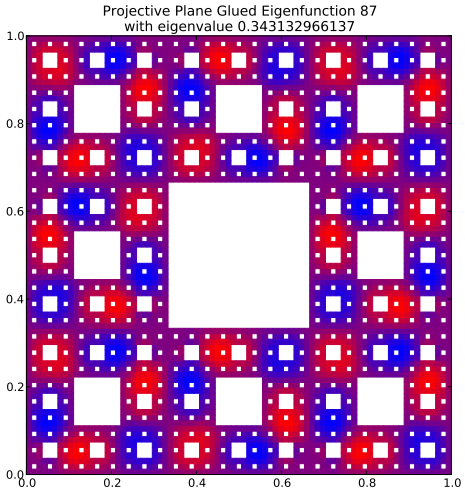


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.168439409662$
Dot Value: 0.01093503083721159

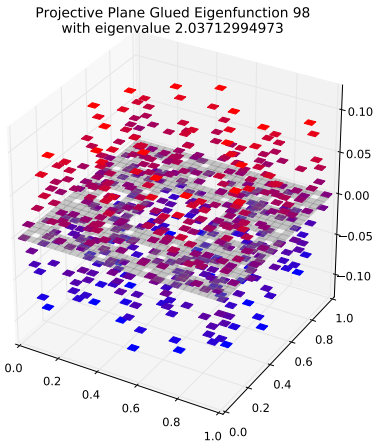
88 $M = 4$ Eigenfunction 87

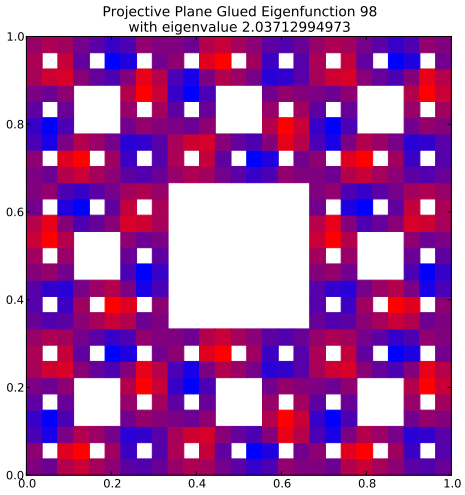
$M = 4$ Eigenfunction 87 has eigenvalue 0.343132966137





Compare to $m = 3$ eigenspace with eigenvalue 2.03712994973
(Note: Eigenspace Dimension > 1)

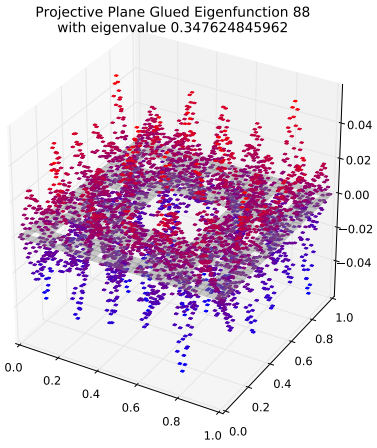


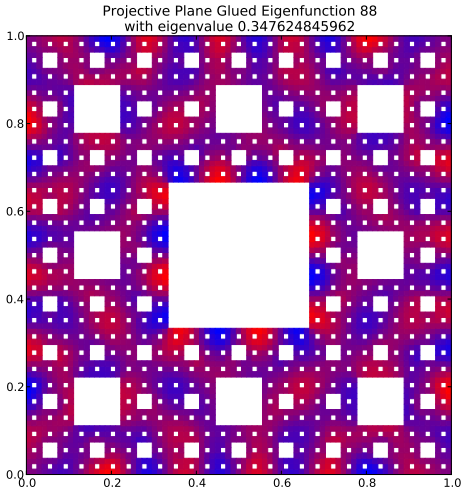


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.168439409662$
Dot Value: 0.010935030837211923

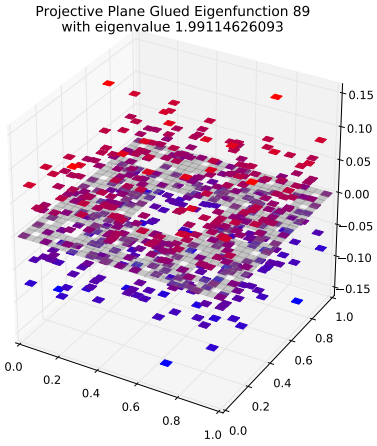
89 $M = 4$ Eigenfunction 88

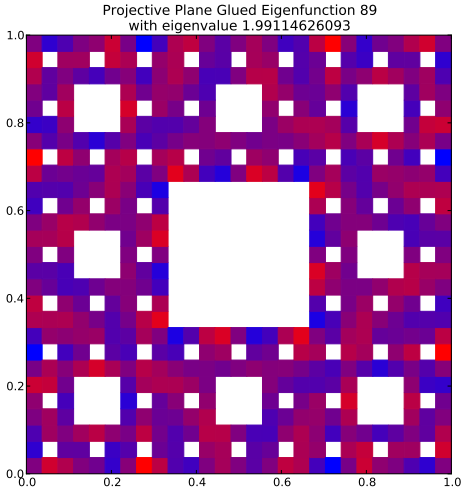
$M = 4$ Eigenfunction 88 has eigenvalue 0.347624845962





Compare to $m = 3$ eigenspace with eigenvalue 1.99114626093

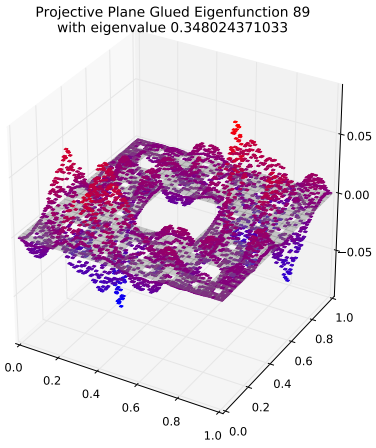


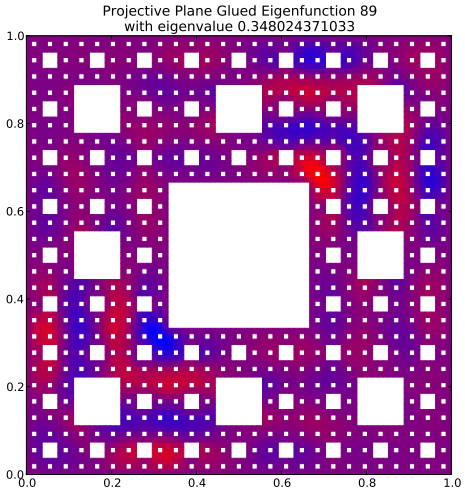


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.174585289279$
Dot Value: 0.1746654075813474

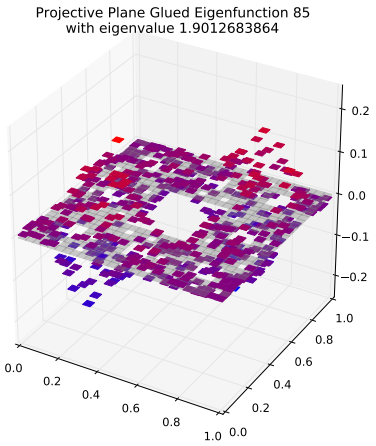
90 $M = 4$ Eigenfunction 89

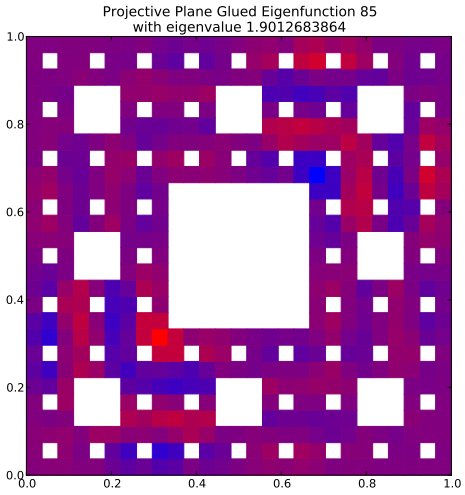
$M = 4$ Eigenfunction 89 has eigenvalue 0.348024371033





Compare to $m = 3$ eigenspace with eigenvalue 1.9012683864
(Note: Eigenspace Dimension > 1)

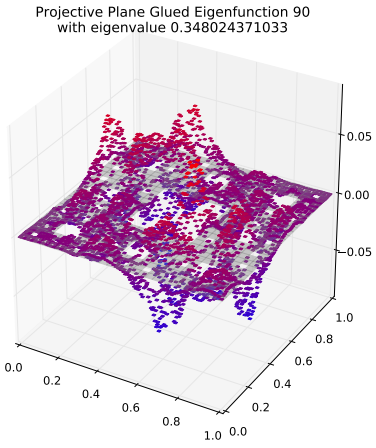


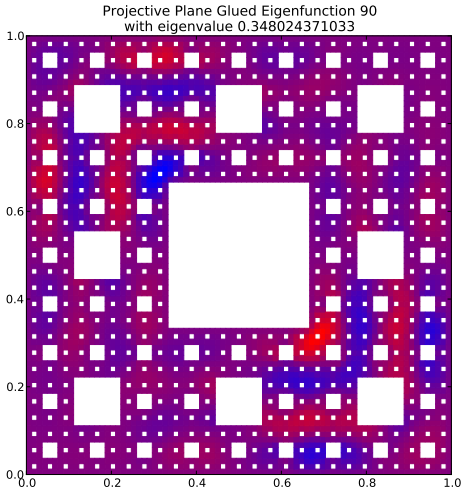


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.183048523565$
Dot Value: 0.02024172637920818

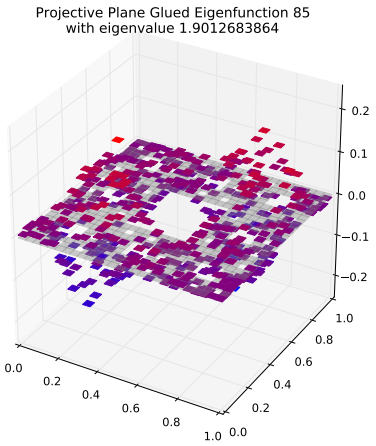
91 $M = 4$ Eigenfunction 90

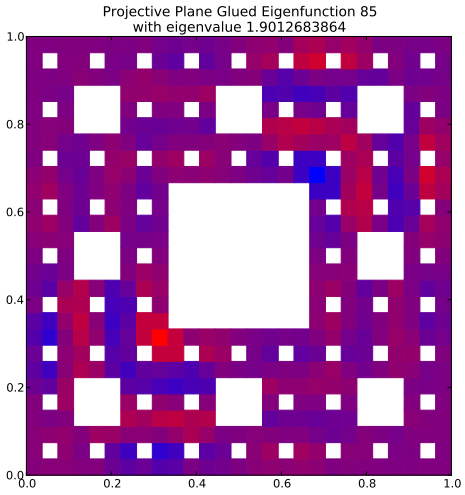
$M = 4$ Eigenfunction 90 has eigenvalue 0.348024371033





Compare to $m = 3$ eigenspace with eigenvalue 1.9012683864
(Note: Eigenspace Dimension > 1)

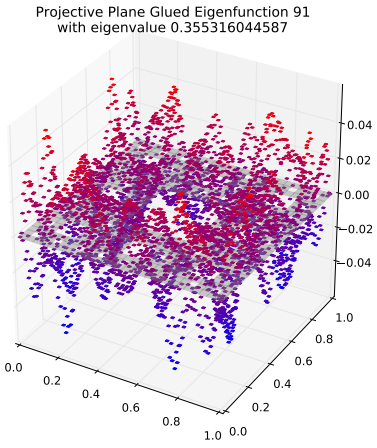


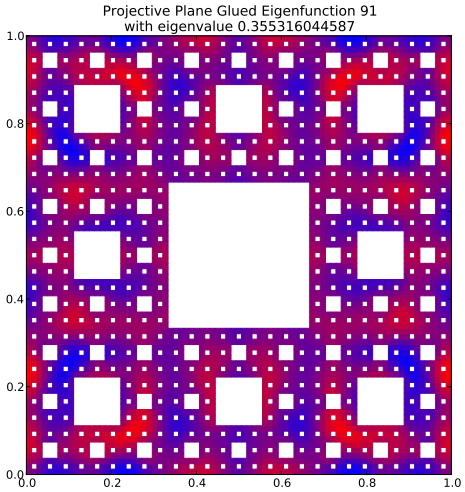


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.183048523565$
Dot Value: 0.02024172637920585

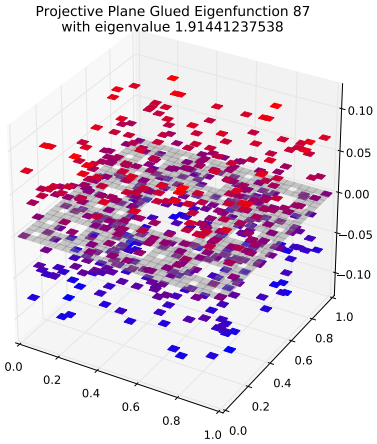
92 $M = 4$ Eigenfunction 91

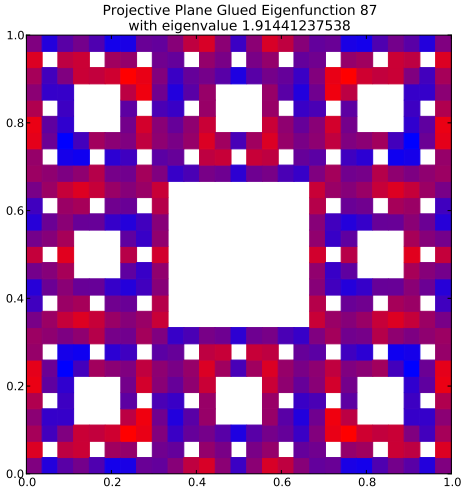
$M = 4$ Eigenfunction 91 has eigenvalue 0.355316044587





Compare to $m = 3$ eigenspace with eigenvalue 1.91441237538

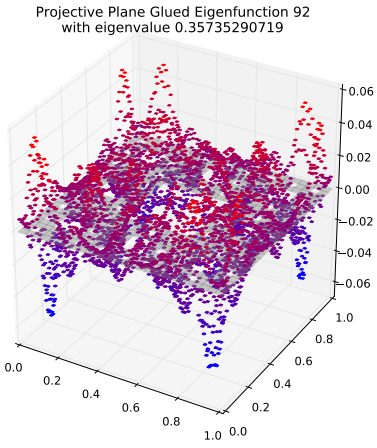


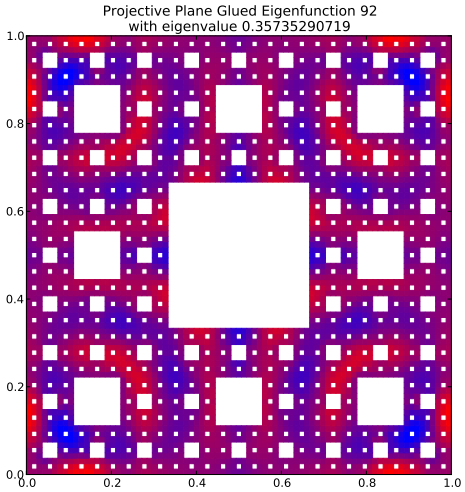


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.185600578619$
Dot Value: 0.05927409680171658

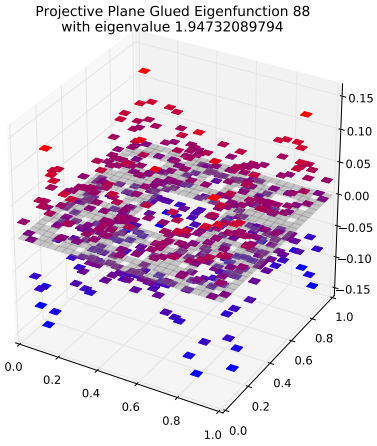
93 $M = 4$ Eigenfunction 92

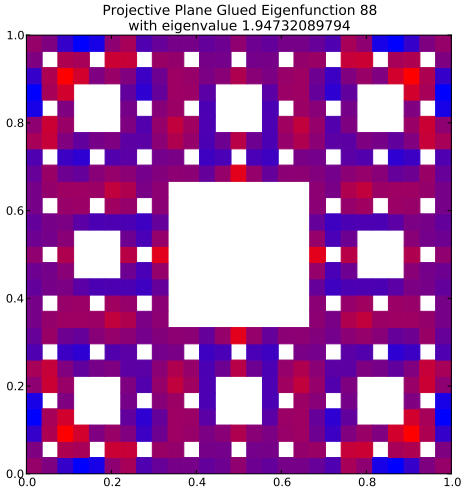
$M = 4$ Eigenfunction 92 has eigenvalue 0.35735290719





Compare to $m = 3$ eigenspace with eigenvalue 1.94732089794

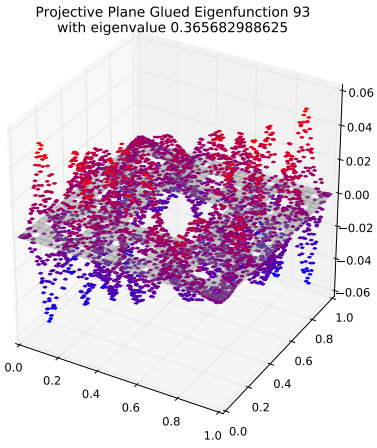


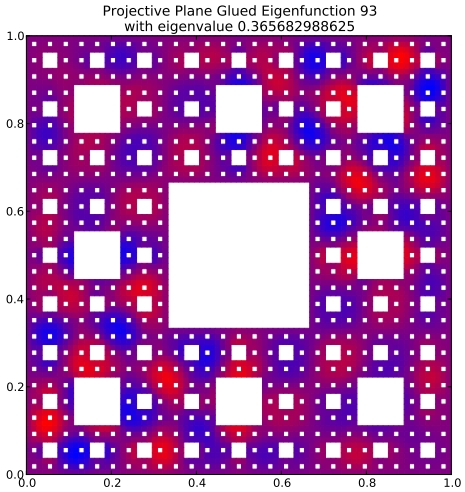


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.18351002527$
Dot Value: 0.1315043783601929

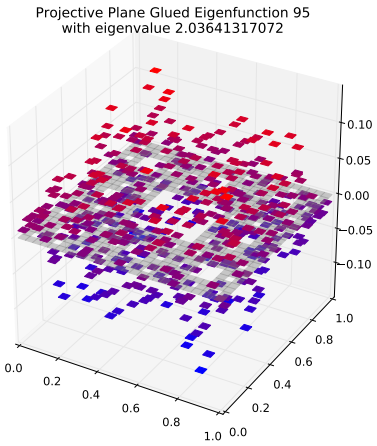
94 $M = 4$ Eigenfunction 93

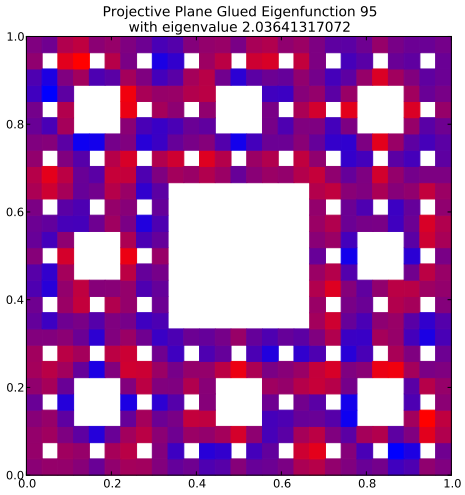
$M = 4$ Eigenfunction 93 has eigenvalue 0.365682988625





Compare to $m = 3$ eigenspace with eigenvalue 2.03641317072
(Note: Eigenspace Dimension > 1)

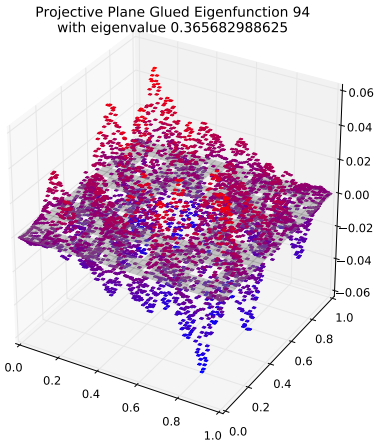


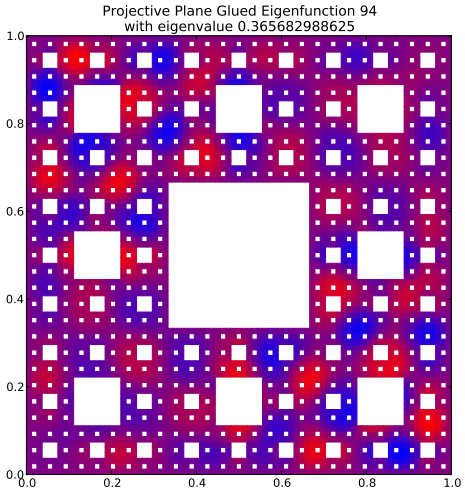


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.179572099554$
Dot Value: 0.20517143823774542

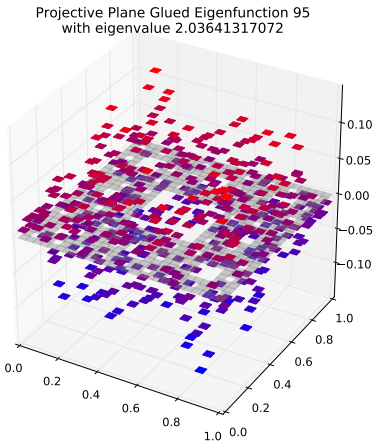
95 $M = 4$ Eigenfunction 94

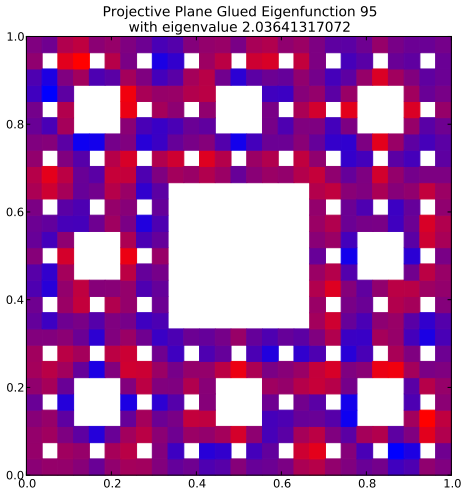
$M = 4$ Eigenfunction 94 has eigenvalue 0.365682988625





Compare to $m = 3$ eigenspace with eigenvalue 2.03641317072
(Note: Eigenspace Dimension > 1)

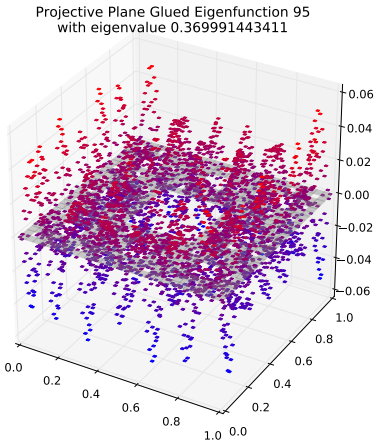


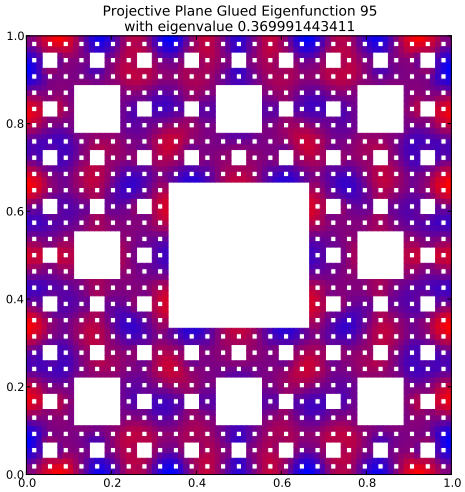


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.179572099554$
Dot Value: 0.2051714382377713

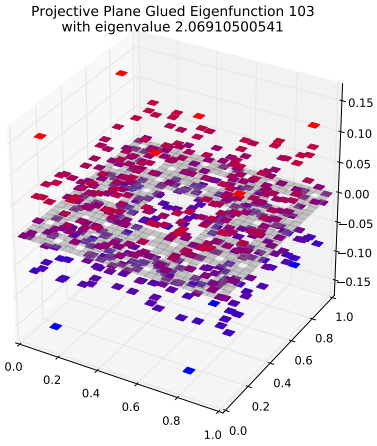
96 $M = 4$ Eigenfunction 95

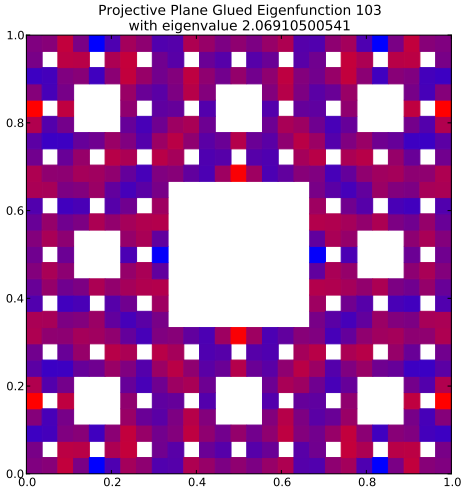
$M = 4$ Eigenfunction 95 has eigenvalue 0.369991443411





Compare to $m = 3$ eigenspace with eigenvalue 2.06910500541

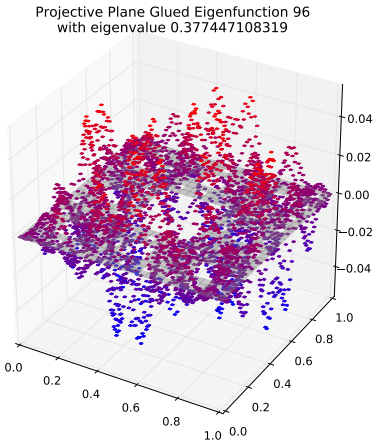


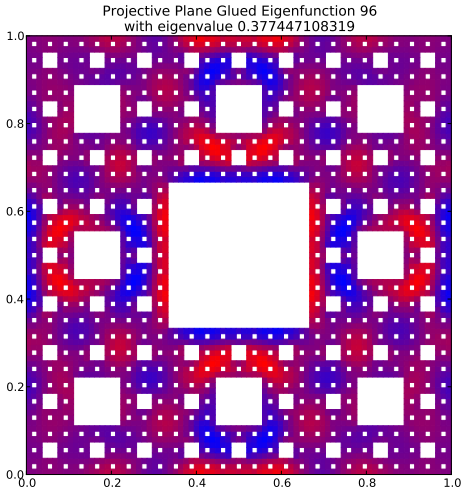


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.178817141925$
Dot Value: 0.31570929437082595

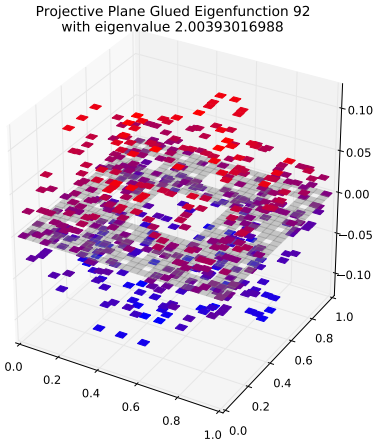
97 $M = 4$ Eigenfunction 96

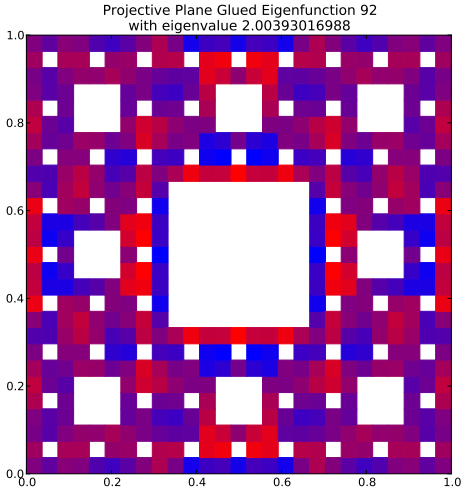
$M = 4$ Eigenfunction 96 has eigenvalue 0.377447108319





Compare to $m = 3$ eigenspace with eigenvalue 2.00393016988

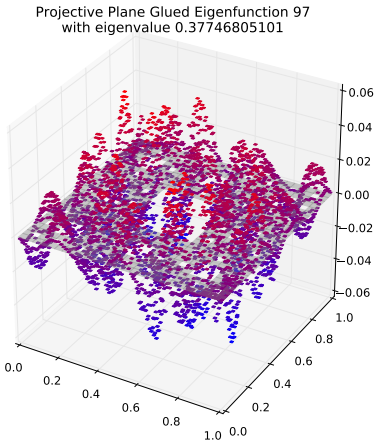


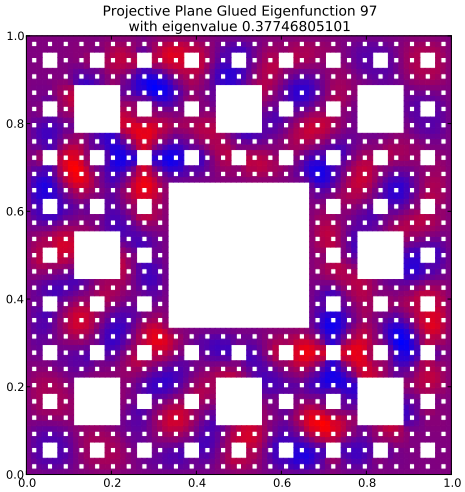


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.188353423683$
Dot Value: 0.09299559772131505

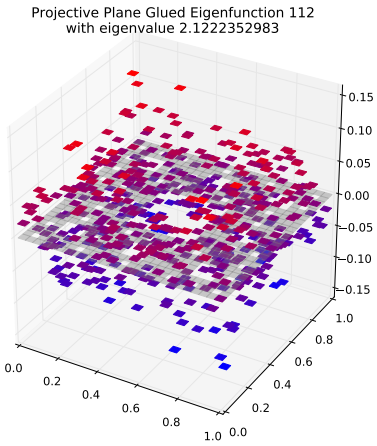
98 $M = 4$ Eigenfunction 97

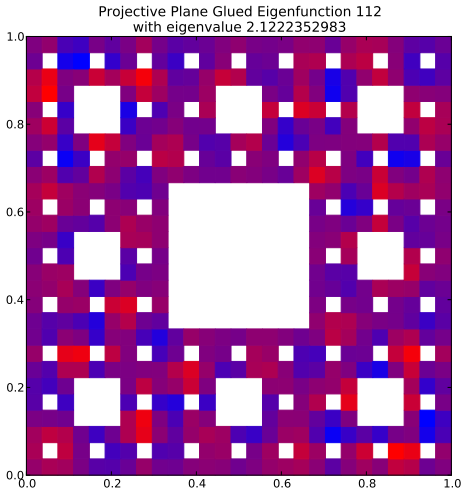
$M = 4$ Eigenfunction 97 has eigenvalue 0.37746805101





Compare to $m = 3$ eigenspace with eigenvalue 2.1222352983
(Note: Eigenspace Dimension > 1)

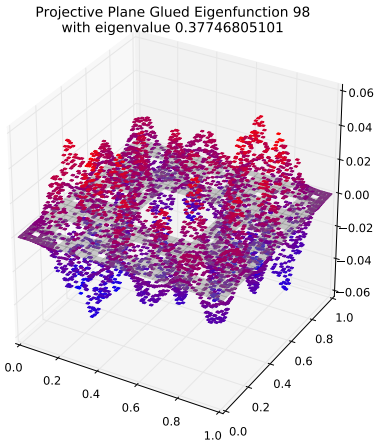


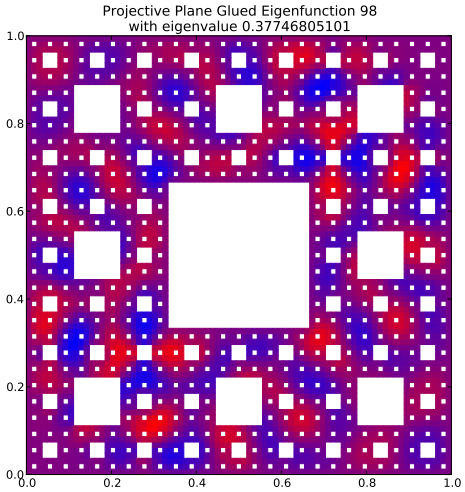


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.177863430748$
Dot Value: 0.4235145981609033

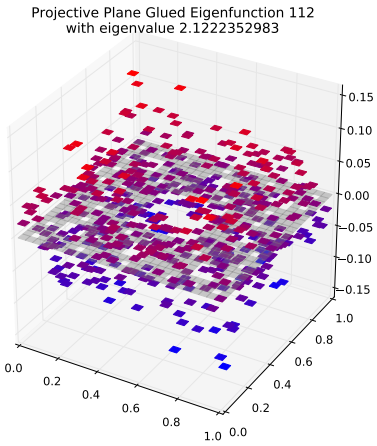
99 $M = 4$ Eigenfunction 98

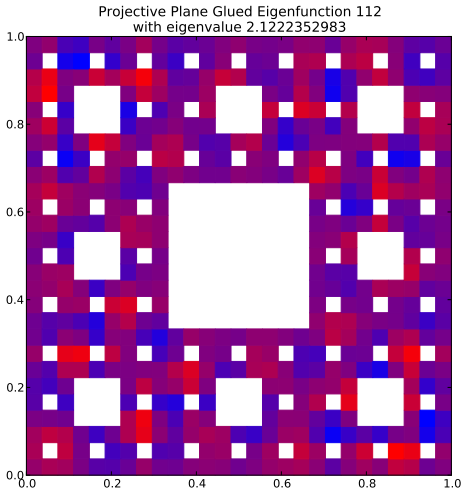
$M = 4$ Eigenfunction 98 has eigenvalue 0.37746805101





Compare to $m = 3$ eigenspace with eigenvalue 2.1222352983
(Note: Eigenspace Dimension > 1)

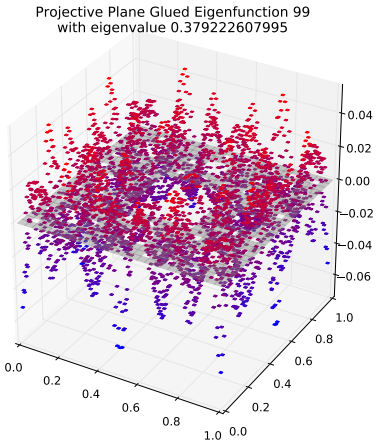


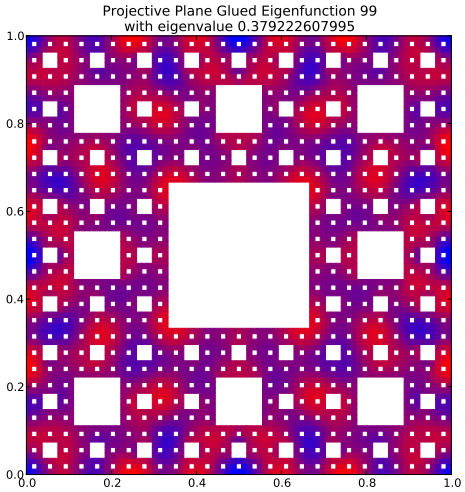


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.177863430748$
Dot Value: 0.423514598160874

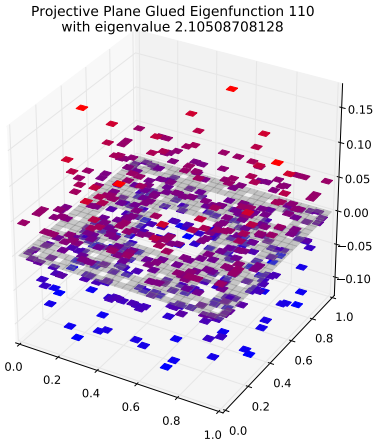
100 $M = 4$ Eigenfunction 99

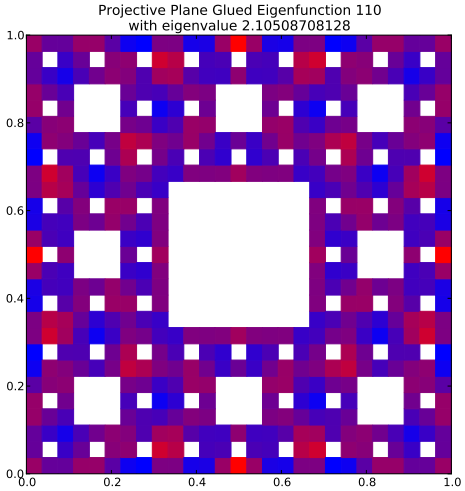
$M = 4$ Eigenfunction 99 has eigenvalue 0.379222607995





Compare to $m = 3$ eigenspace with eigenvalue 2.10508708128

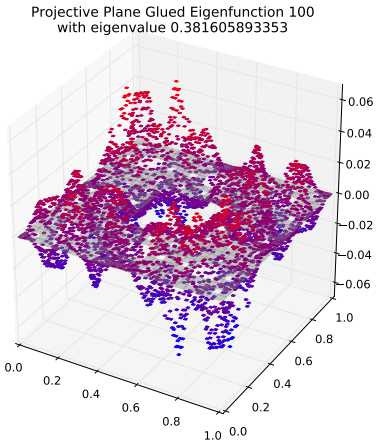


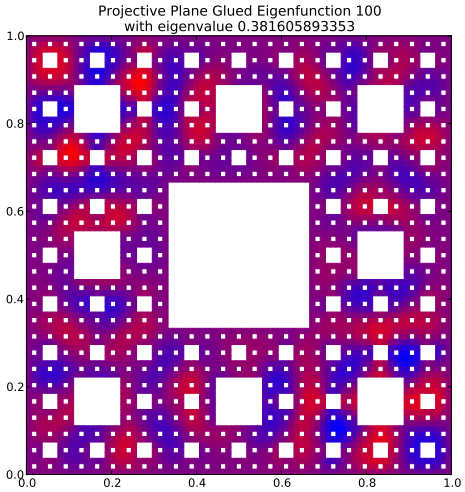


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.180145805542$
Dot Value: 0.14888551775159742

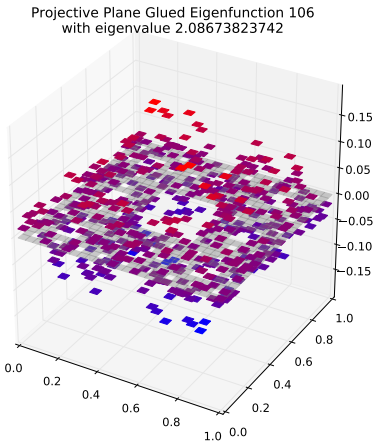
101 $M = 4$ Eigenfunction 100

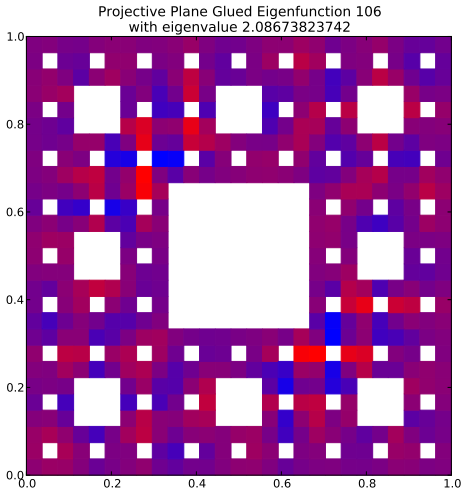
$M = 4$ Eigenfunction 100 has eigenvalue 0.381605893353





Compare to $m = 3$ eigenspace with eigenvalue 2.08673823742
(Note: Eigenspace Dimension > 1)

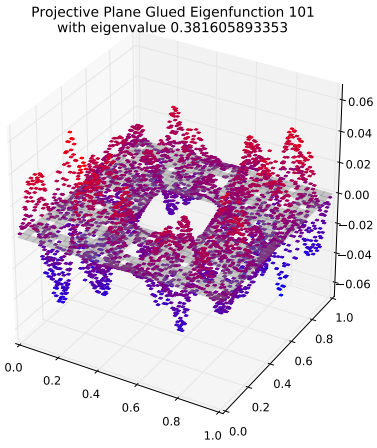


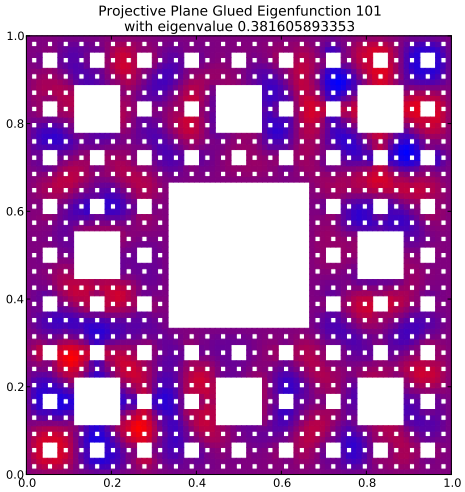


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.182871951312$
Dot Value: 0.44432377303008563

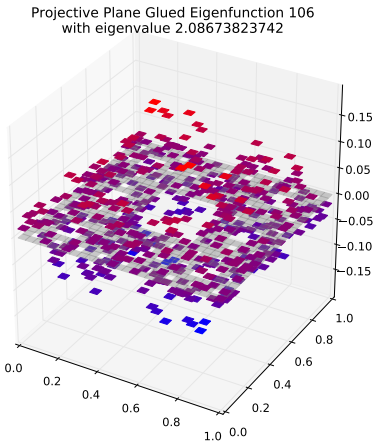
102 $M = 4$ Eigenfunction 101

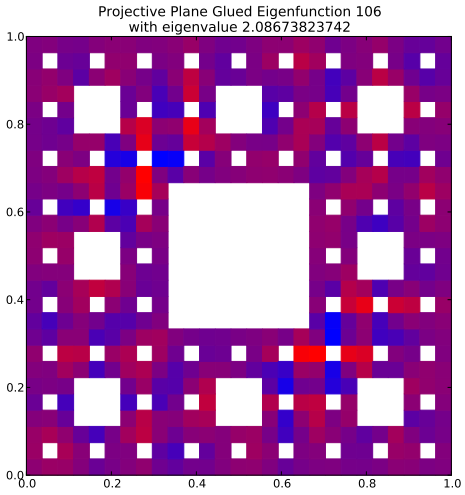
$M = 4$ Eigenfunction 101 has eigenvalue 0.381605893353





Compare to $m = 3$ eigenspace with eigenvalue 2.08673823742
(Note: Eigenspace Dimension > 1)

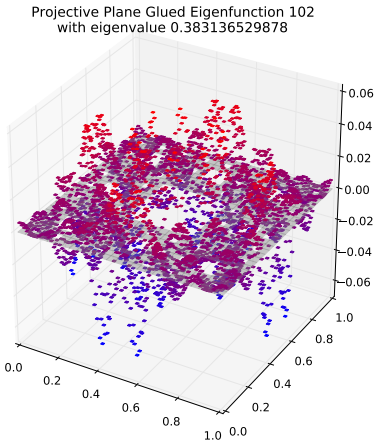


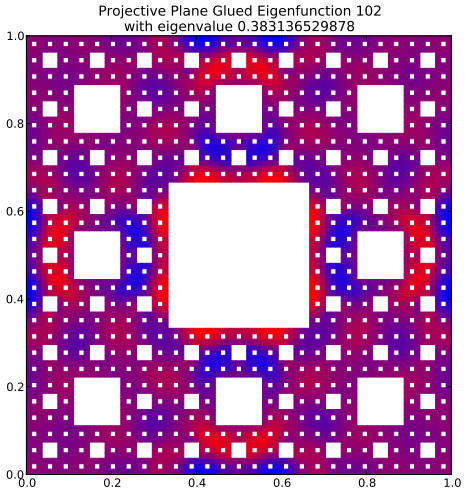


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.182871951312$
Dot Value: 0.44432377303001536

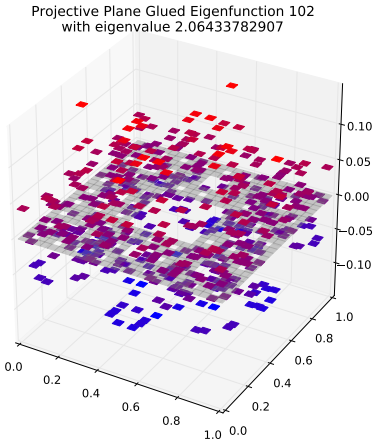
103 $M = 4$ Eigenfunction 102

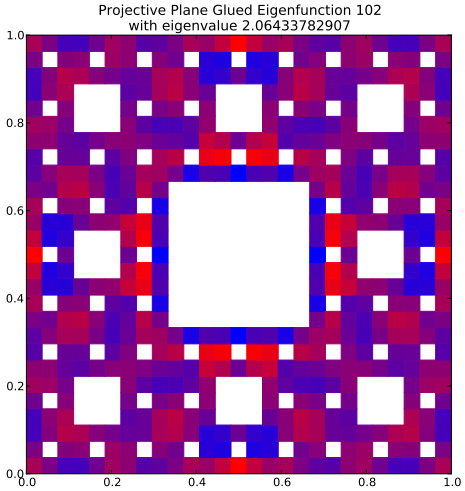
$M = 4$ Eigenfunction 102 has eigenvalue 0.383136529878





Compare to $m = 3$ eigenspace with eigenvalue 2.06433782907

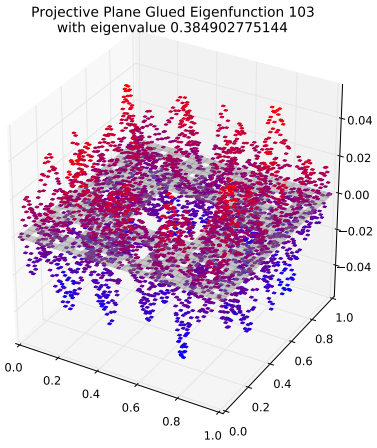


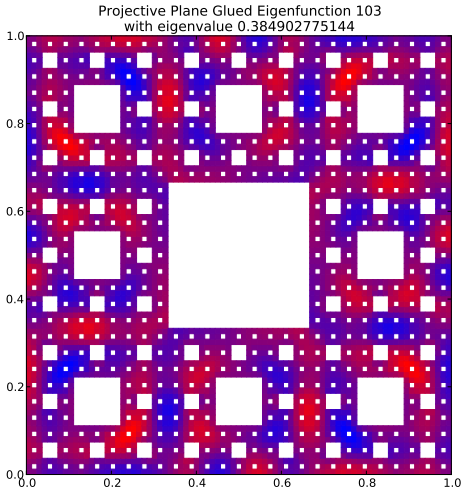


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.185597785635$
Dot Value: 0.2652655371304484

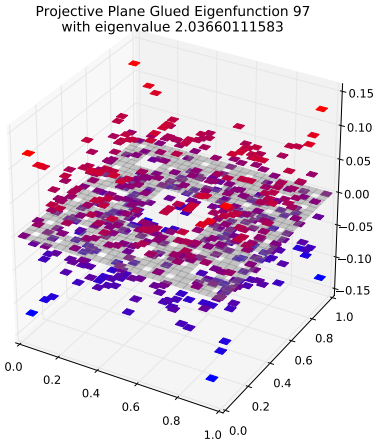
104 $M = 4$ Eigenfunction 103

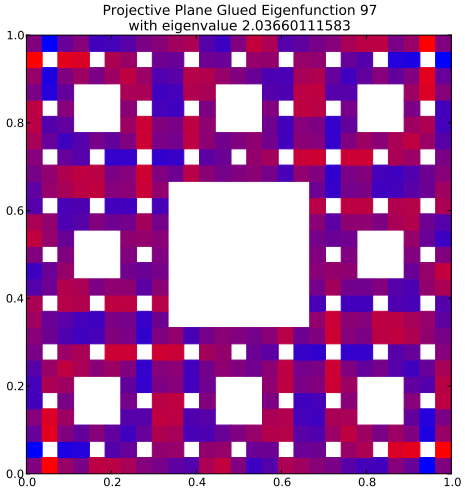
$M = 4$ Eigenfunction 103 has eigenvalue 0.384902775144





Compare to $m = 3$ eigenspace with eigenvalue 2.03660111583

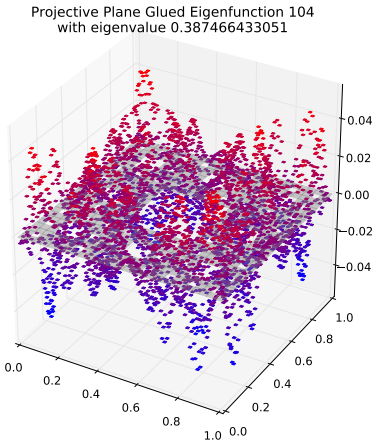


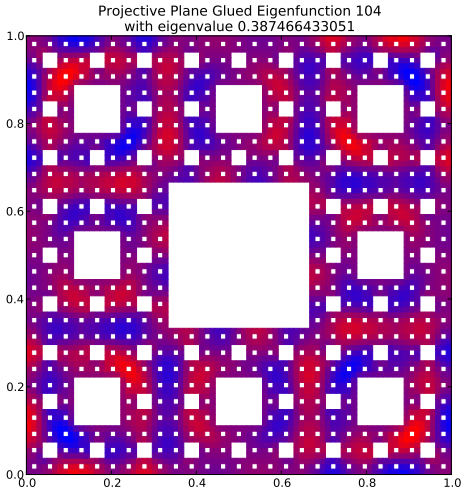


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.188992715437$
Dot Value: 0.21062563679099078

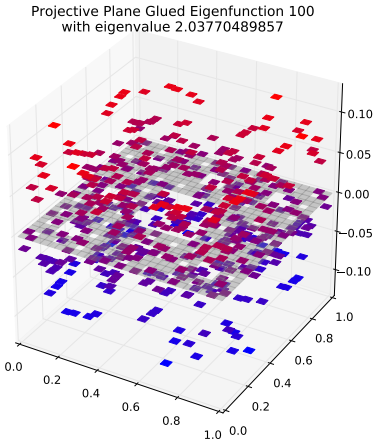
105 $M = 4$ Eigenfunction 104

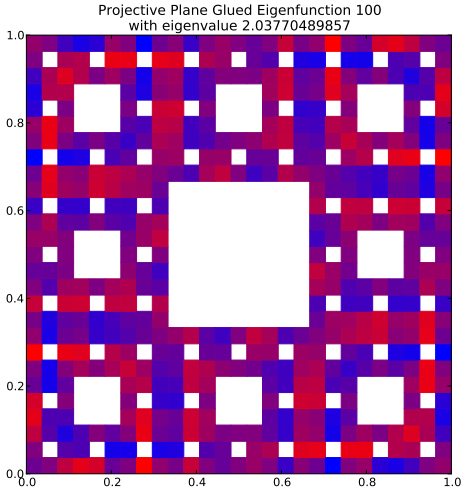
$M = 4$ Eigenfunction 104 has eigenvalue 0.387466433051





Compare to $m = 3$ eigenspace with eigenvalue 2.03770489857

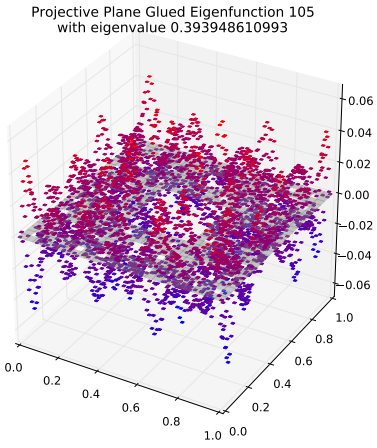


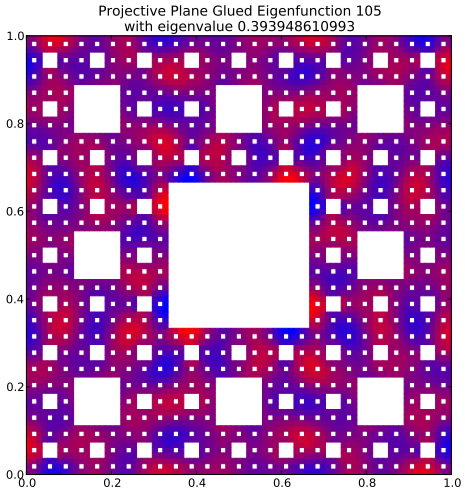


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.190148452469$
Dot Value: 0.13254679999467223

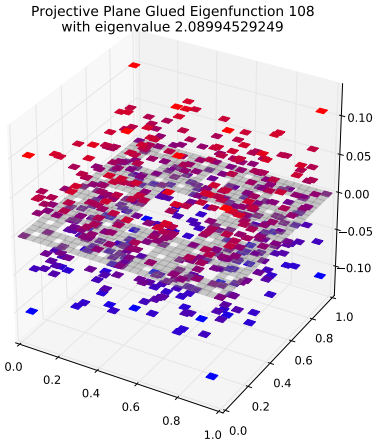
106 $M = 4$ Eigenfunction 105

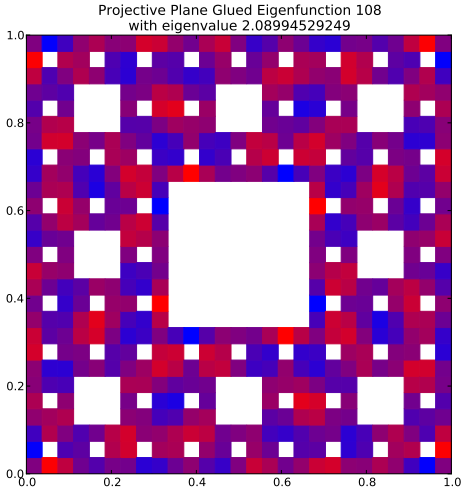
$M = 4$ Eigenfunction 105 has eigenvalue 0.393948610993





Compare to $m = 3$ eigenspace with eigenvalue 2.08994529249

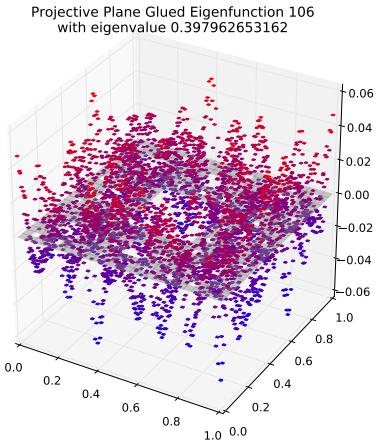


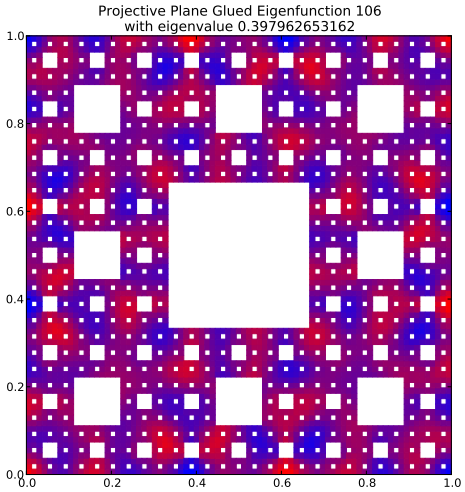


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.18849709244$
Dot Value: 0.1566269052426763

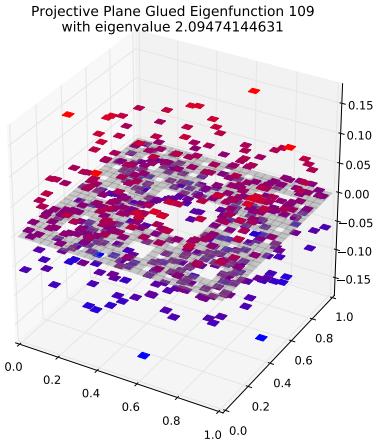
107 $M = 4$ Eigenfunction 106

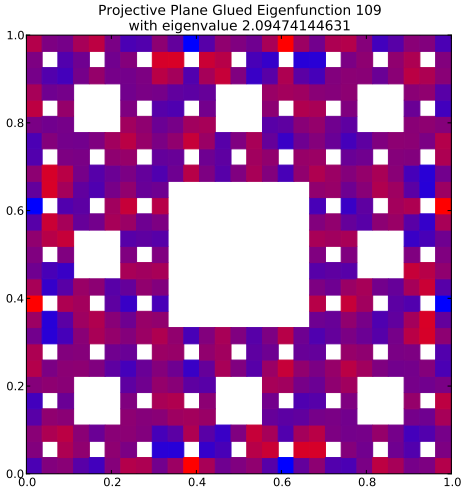
$M = 4$ Eigenfunction 106 has eigenvalue 0.397962653162





Compare to $m = 3$ eigenspace with eigenvalue 2.09474144631

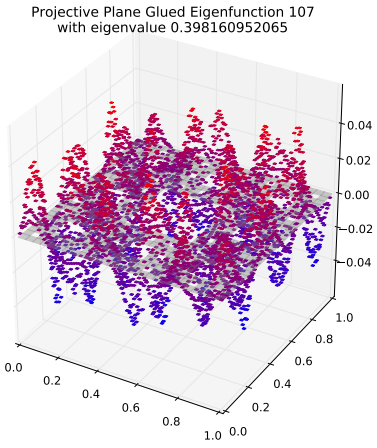


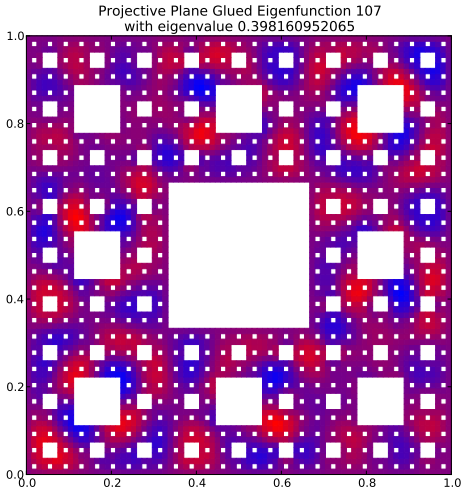


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.18998175353$
Dot Value: 0.07809589186219568

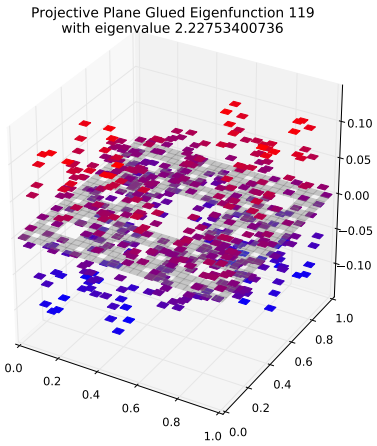
108 $M = 4$ Eigenfunction 107

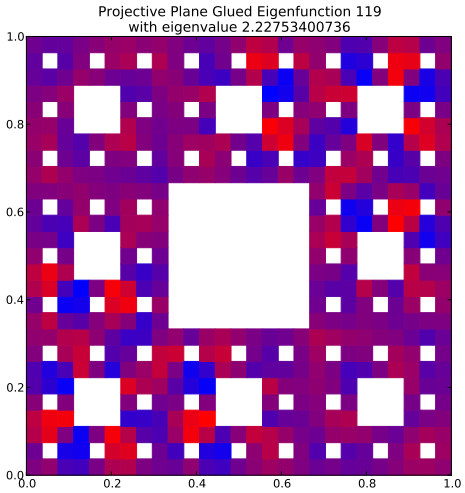
$M = 4$ Eigenfunction 107 has eigenvalue 0.398160952065





Compare to $m = 3$ eigenspace with eigenvalue 2.22753400736
(Note: Eigenspace Dimension > 1)

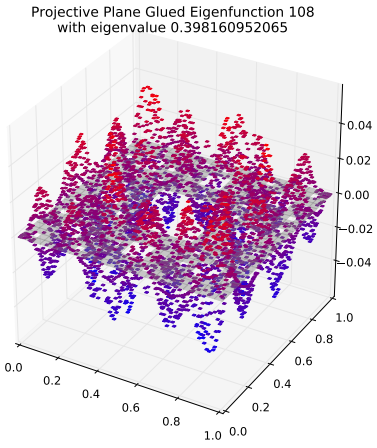


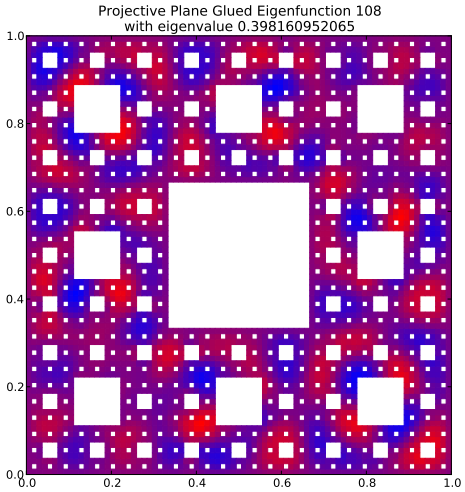


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.17874517325$
Dot Value: 0.2708428424246543

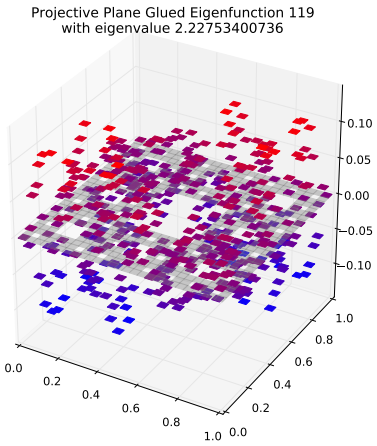
109 $M = 4$ Eigenfunction 108

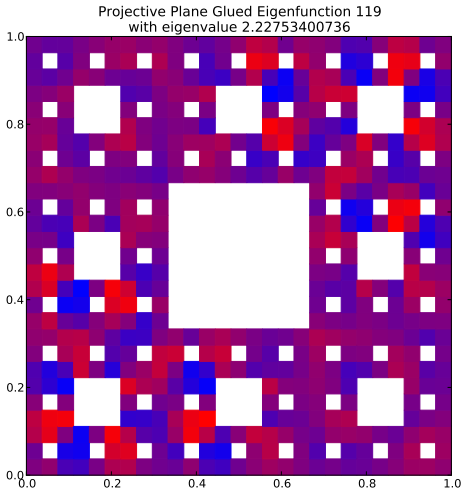
$M = 4$ Eigenfunction 108 has eigenvalue 0.398160952065





Compare to $m = 3$ eigenspace with eigenvalue 2.22753400736
(Note: Eigenspace Dimension > 1)

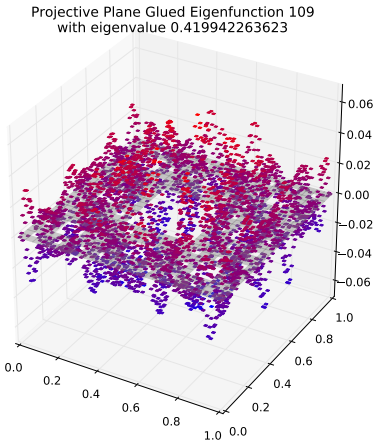


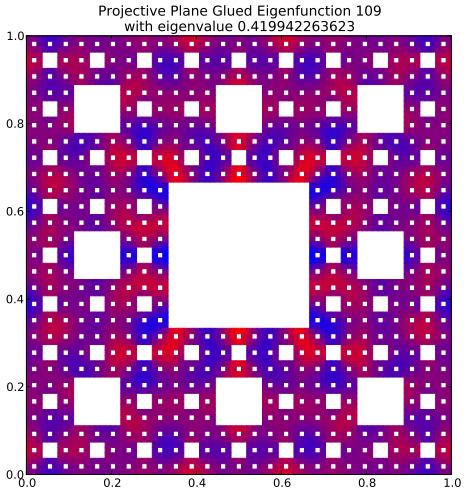


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.17874517325$
Dot Value: 0.27084284242467316

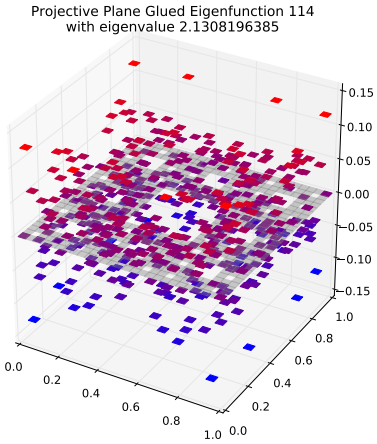
110 $M = 4$ Eigenfunction 109

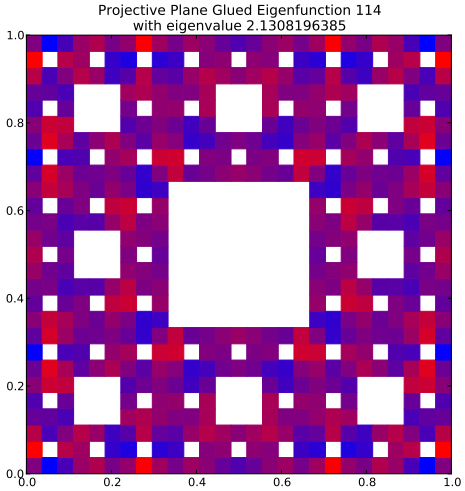
$M = 4$ Eigenfunction 109 has eigenvalue 0.419942263623





Compare to $m = 3$ eigenspace with eigenvalue 2.1308196385

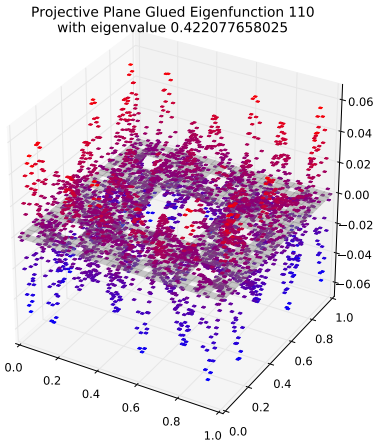


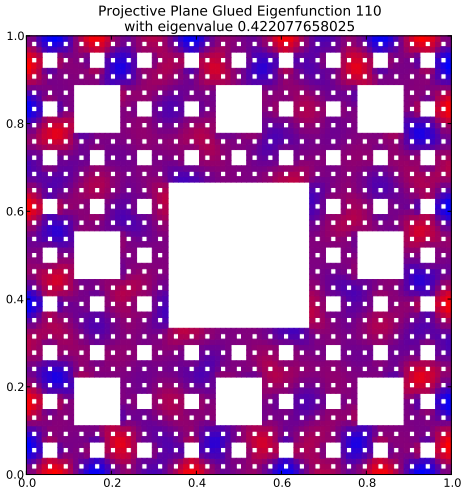


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.197080154526$
Dot Value: 0.39339865065973645

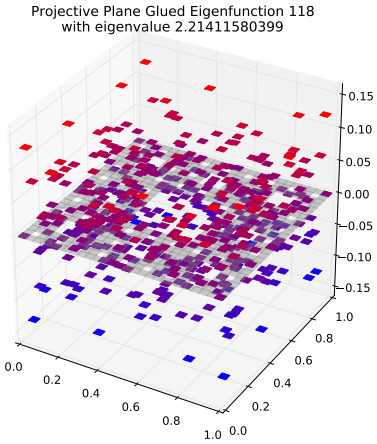
111 $M = 4$ Eigenfunction 110

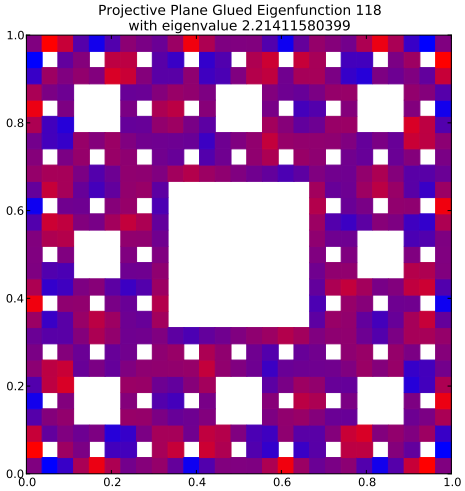
$M = 4$ Eigenfunction 110 has eigenvalue 0.422077658025





Compare to $m = 3$ eigenspace with eigenvalue 2.21411580399

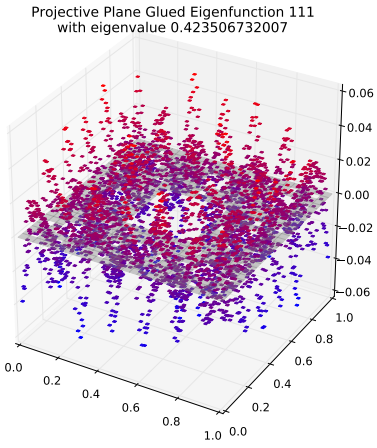


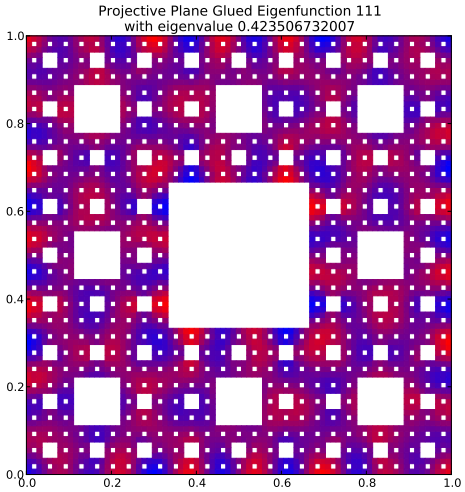


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.190630344295$
Dot Value: 0.044914812821593375

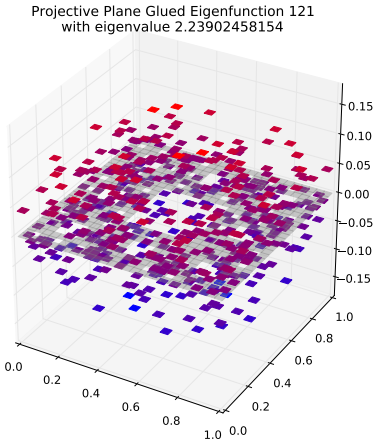
112 $M = 4$ Eigenfunction 111

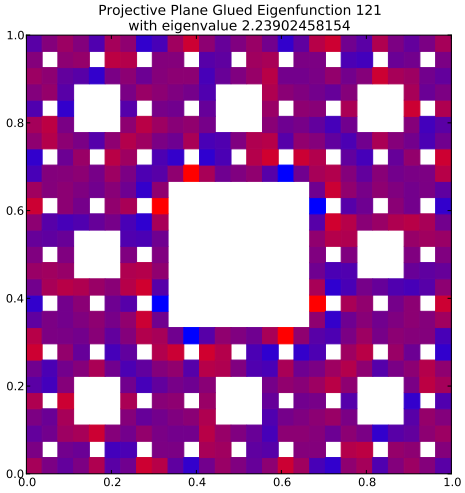
$M = 4$ Eigenfunction 111 has eigenvalue 0.423506732007





Compare to $m = 3$ eigenspace with eigenvalue 2.23902458154

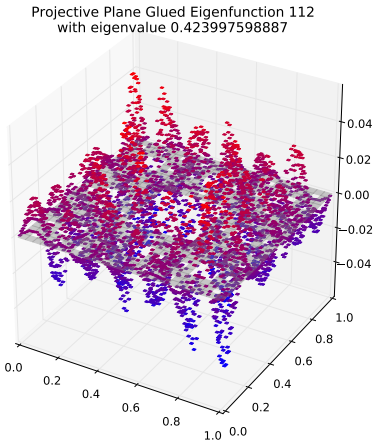


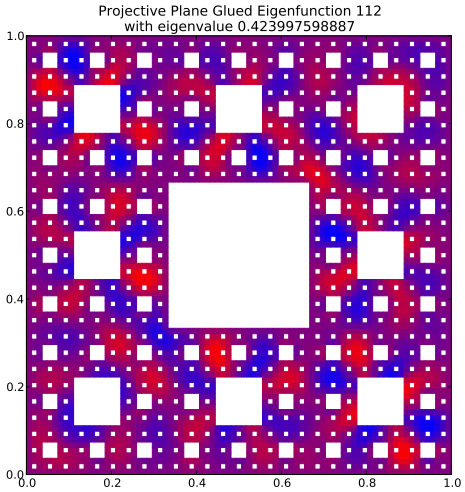


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.189147870684$
Dot Value: 0.19808868088081266

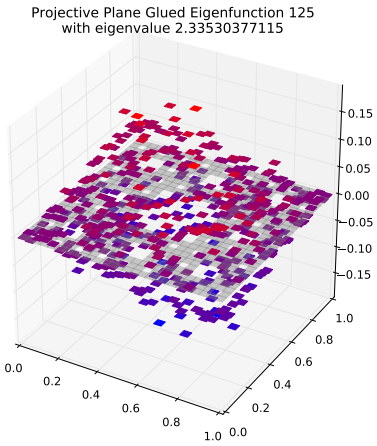
113 $M = 4$ Eigenfunction 112

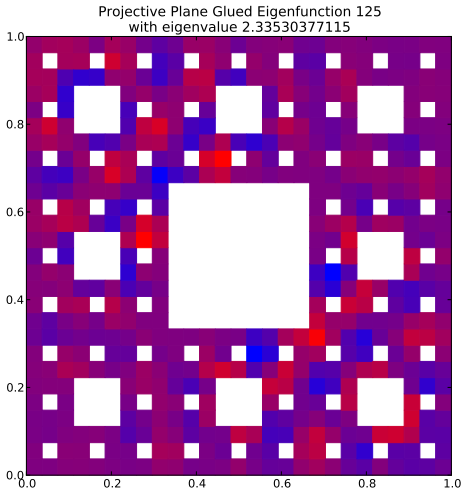
$M = 4$ Eigenfunction 112 has eigenvalue 0.423997598887





Compare to $m = 3$ eigenspace with eigenvalue 2.33530377115
(Note: Eigenspace Dimension > 1)

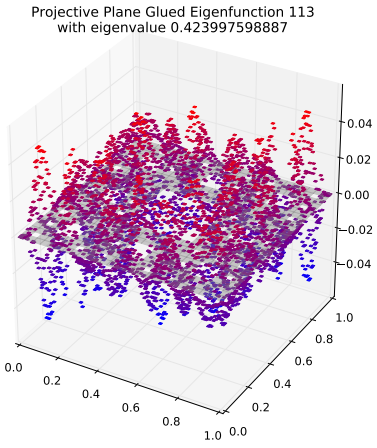


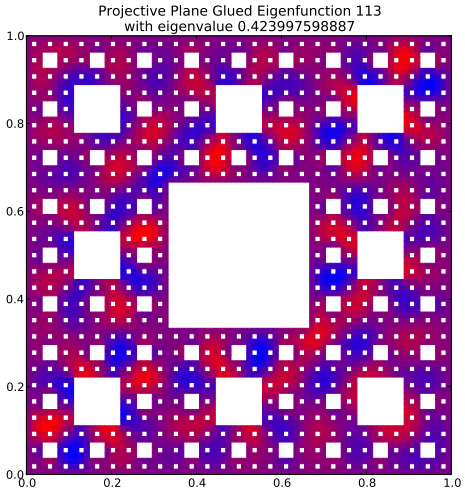


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.18155993414$
Dot Value: 0.32465573682249826

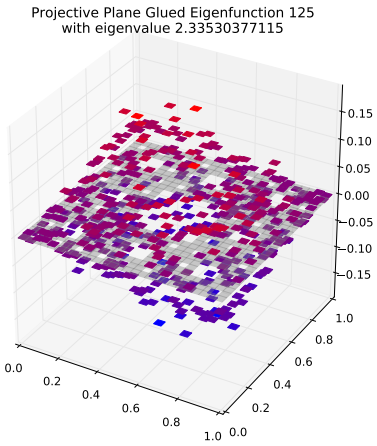
114 $M = 4$ Eigenfunction 113

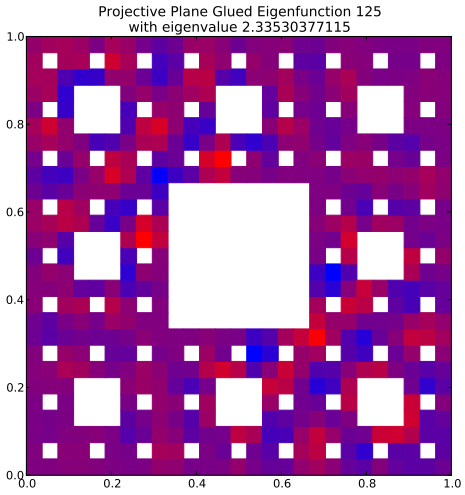
$M = 4$ Eigenfunction 113 has eigenvalue 0.423997598887





Compare to $m = 3$ eigenspace with eigenvalue 2.33530377115
(Note: Eigenspace Dimension > 1)

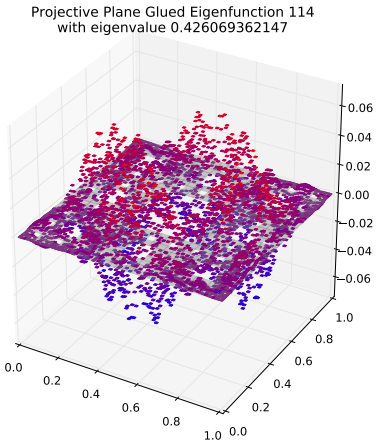


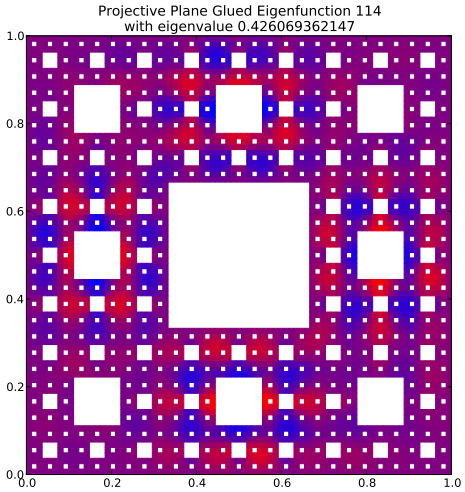


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.18155993414$
Dot Value: 0.3246557368225267

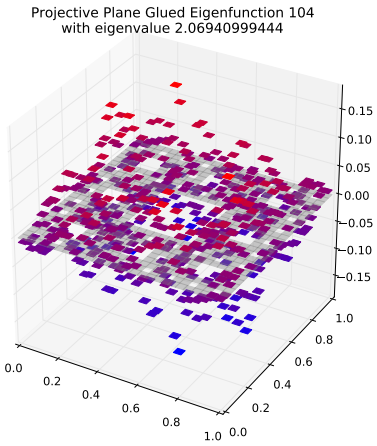
115 $M = 4$ Eigenfunction 114

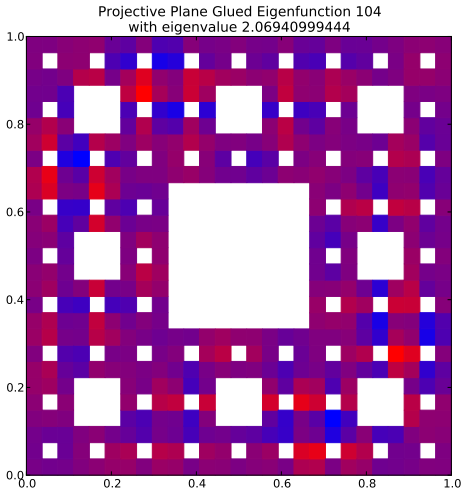
$M = 4$ Eigenfunction 114 has eigenvalue 0.426069362148





Compare to $m = 3$ eigenspace with eigenvalue 2.06940999444
(Note: Eigenspace Dimension > 1)

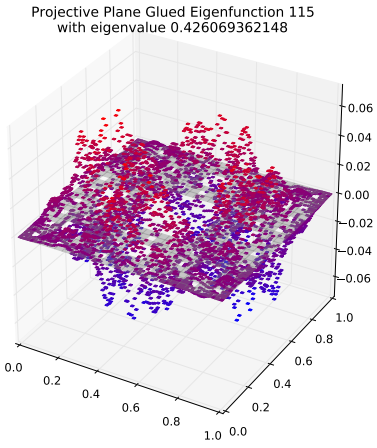


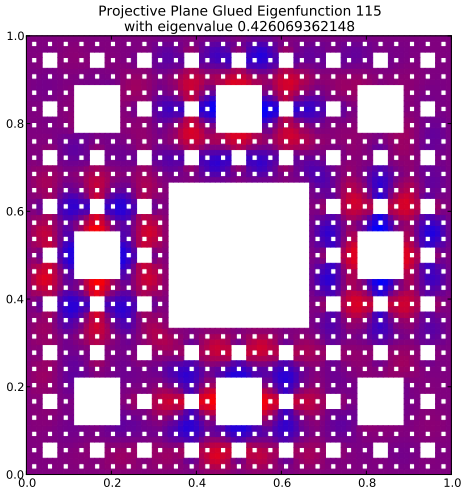


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.205889293708$
Dot Value: 0.3641328212033109

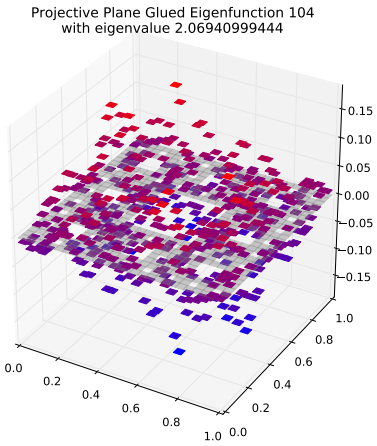
116 $M = 4$ Eigenfunction 115

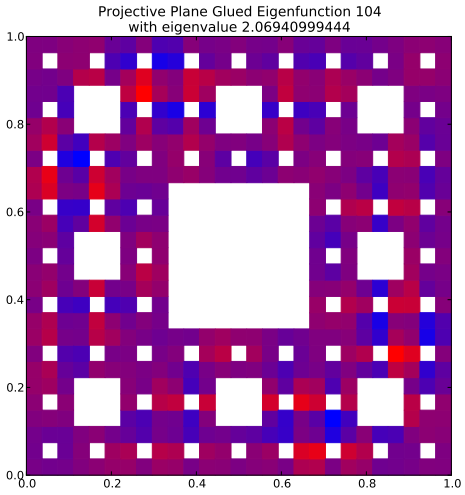
$M = 4$ Eigenfunction 115 has eigenvalue 0.426069362148





Compare to $m = 3$ eigenspace with eigenvalue 2.06940999444
(Note: Eigenspace Dimension > 1)

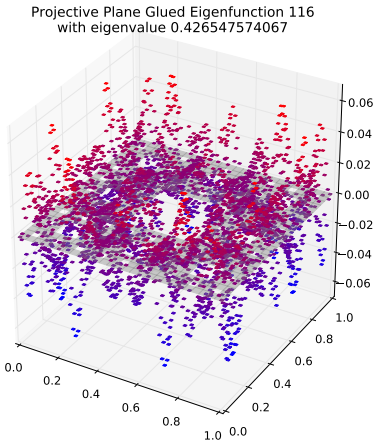


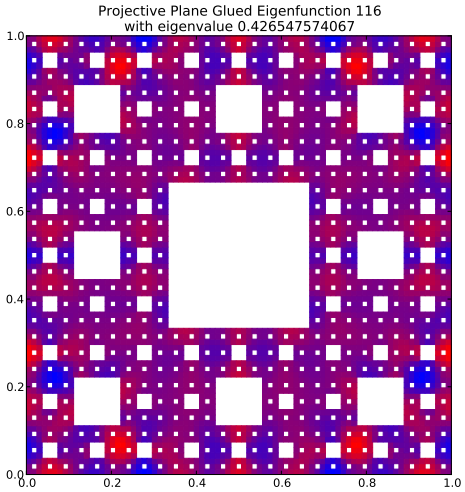


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.205889293708$
Dot Value: 0.36413282120316337

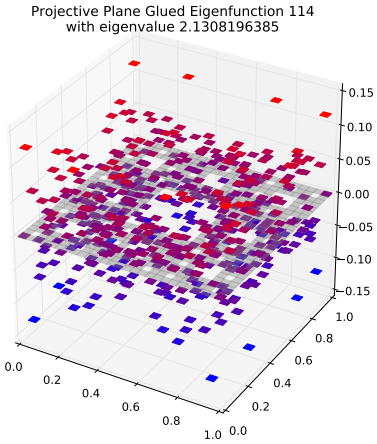
117 $M = 4$ Eigenfunction 116

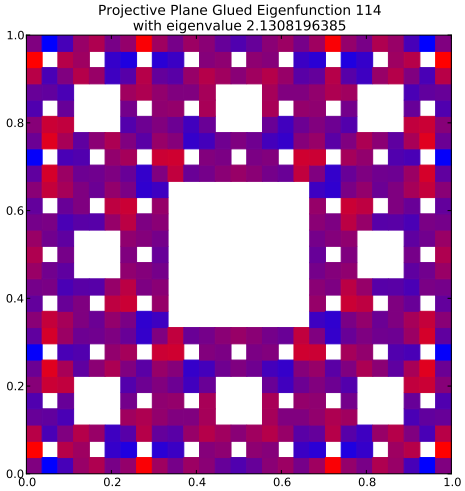
$M = 4$ Eigenfunction 116 has eigenvalue 0.426547574067





Compare to $m = 3$ eigenspace with eigenvalue 2.1308196385

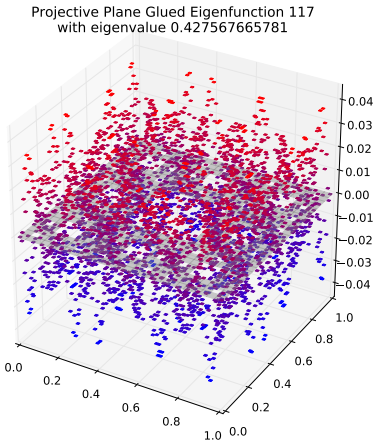


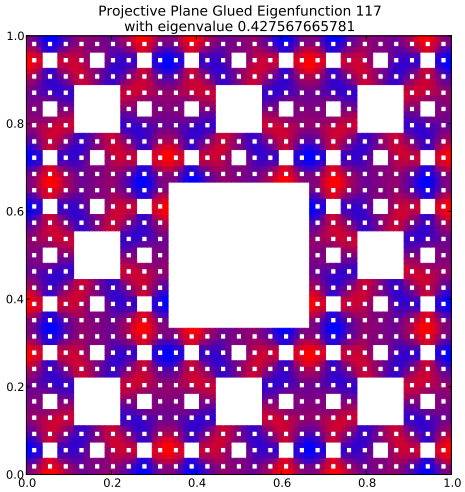


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.200180046382$
Dot Value: 0.27512304593657044

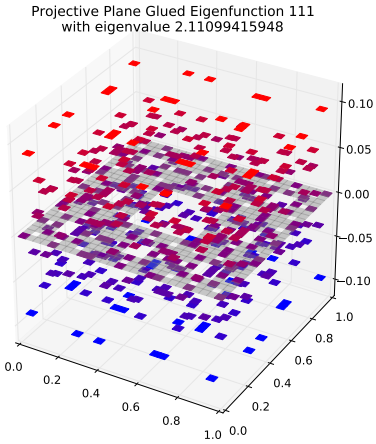
118 $M = 4$ Eigenfunction 117

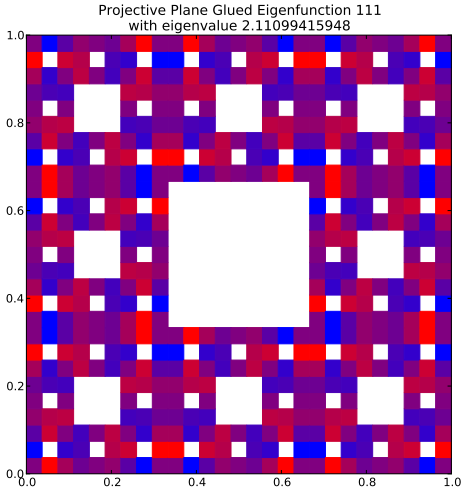
$M = 4$ Eigenfunction 117 has eigenvalue 0.427567665781





Compare to $m = 3$ eigenspace with eigenvalue 2.11099415948

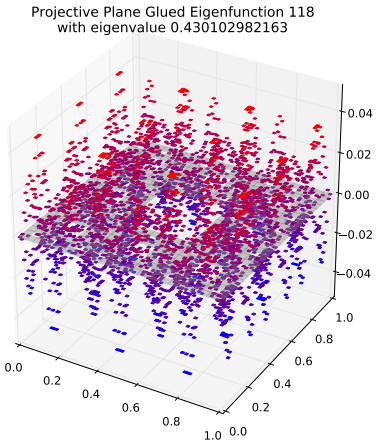


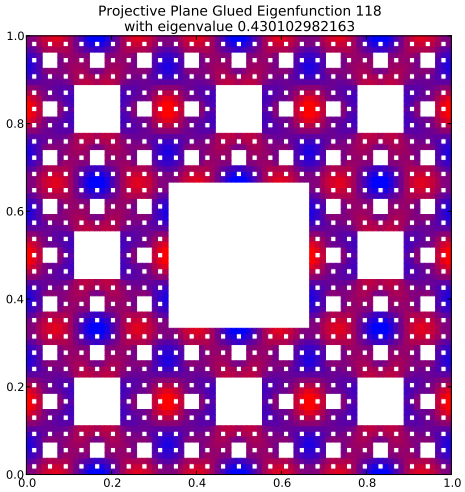


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.202543272733$
Dot Value: 0.007310975902897976

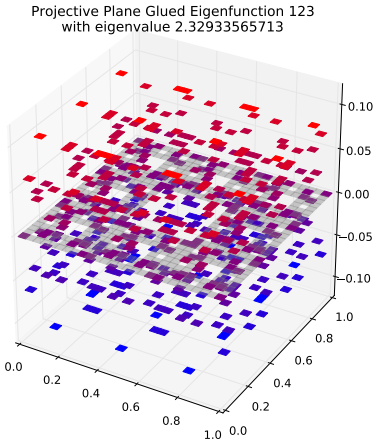
119 $M = 4$ Eigenfunction 118

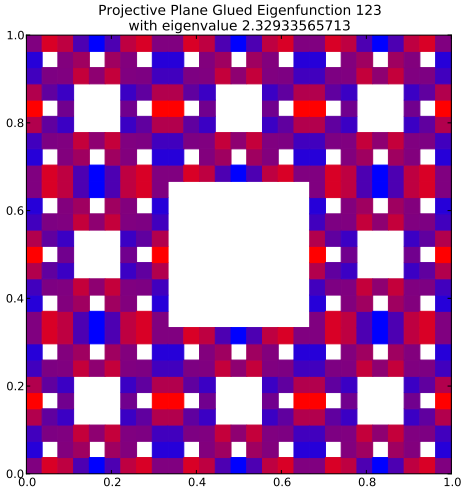
$M = 4$ Eigenfunction 118 has eigenvalue 0.430102982163





Compare to $m = 3$ eigenspace with eigenvalue 2.32933565713

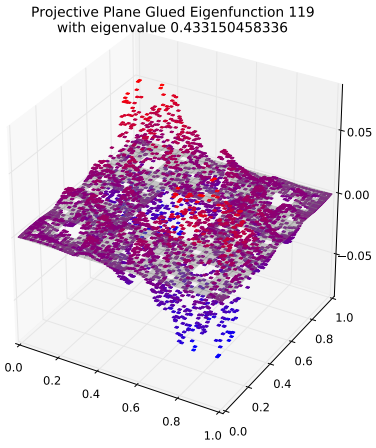


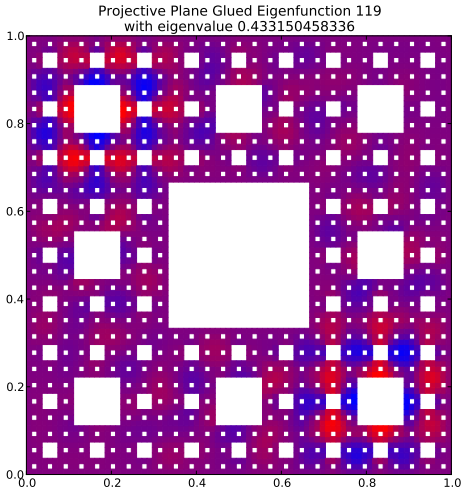


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.184646201953$
Dot Value: 0.011445548696592867

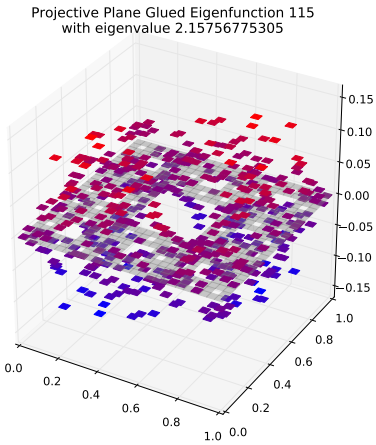
120 $M = 4$ Eigenfunction 119

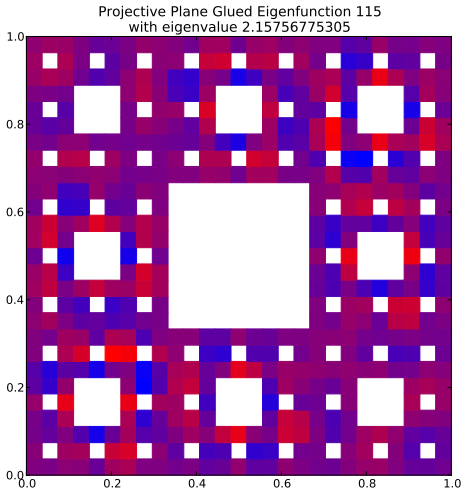
$M = 4$ Eigenfunction 119 has eigenvalue 0.433150458336





Compare to $m = 3$ eigenspace with eigenvalue 2.15756775305
(Note: Eigenspace Dimension > 1)

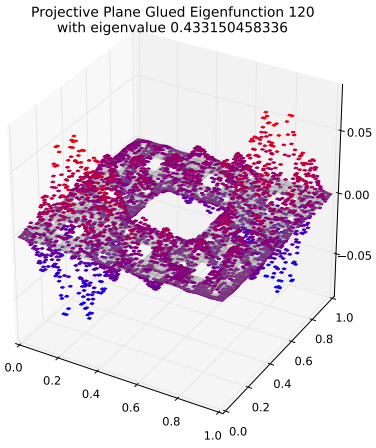


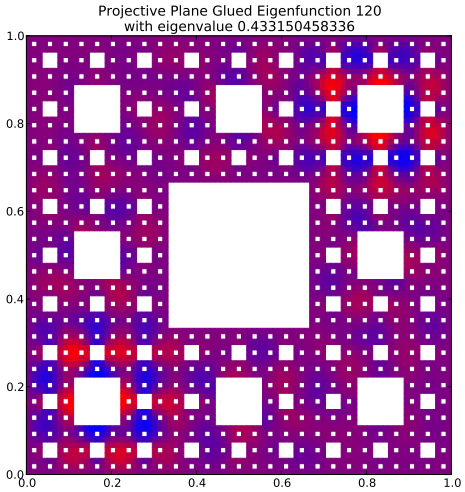


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.200758681957$
Dot Value: 0.38839885463951884

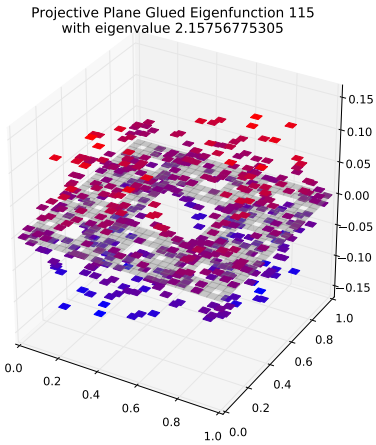
121 $M = 4$ Eigenfunction 120

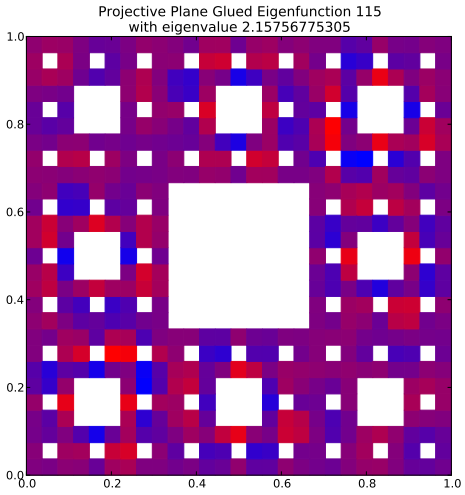
$M = 4$ Eigenfunction 120 has eigenvalue 0.433150458336





Compare to $m = 3$ eigenspace with eigenvalue 2.15756775305
(Note: Eigenspace Dimension > 1)

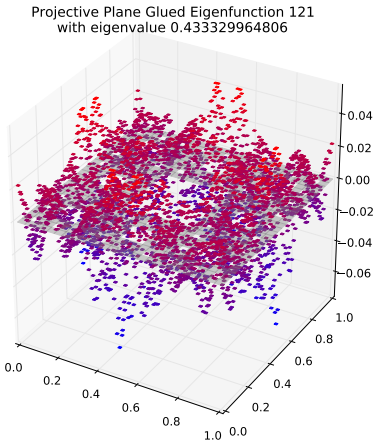


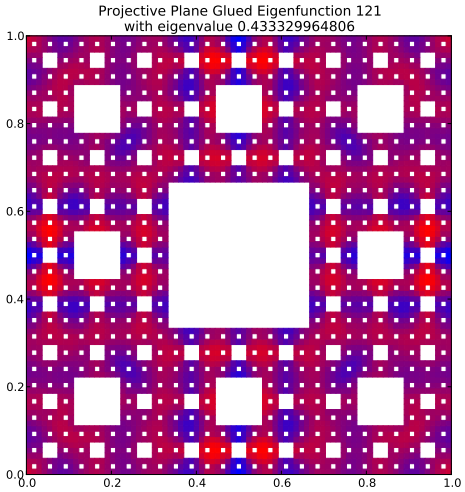


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.200758681957$
Dot Value: 0.3883988546395619

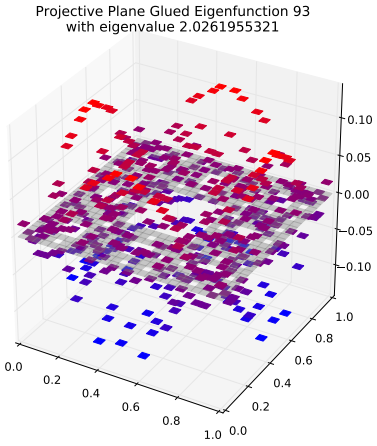
122 $M = 4$ Eigenfunction 121

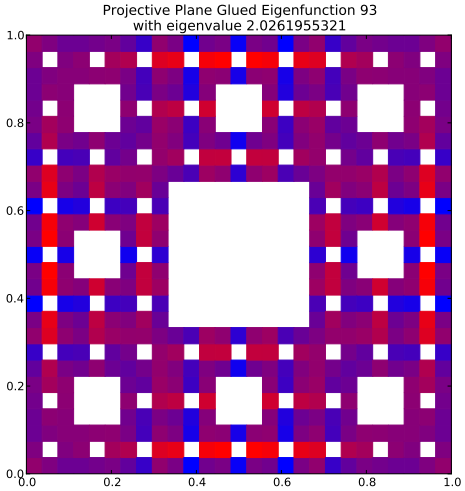
$M = 4$ Eigenfunction 121 has eigenvalue 0.433329964806





Compare to $m = 3$ eigenspace with eigenvalue 2.0261955321

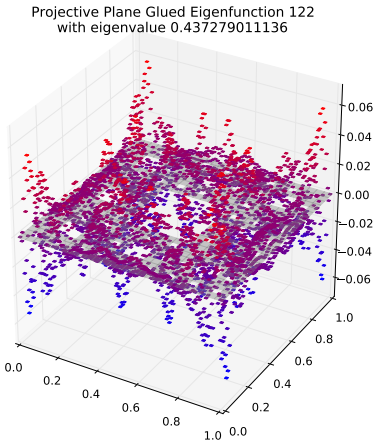


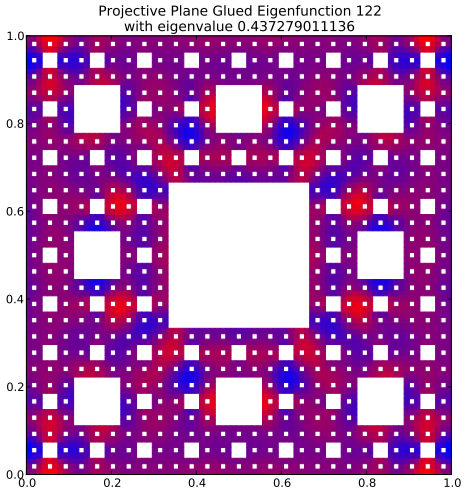


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.21386384381$
Dot Value: 0.16787584929791843

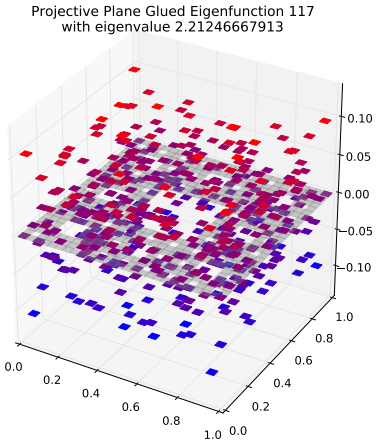
123 $M = 4$ Eigenfunction 122

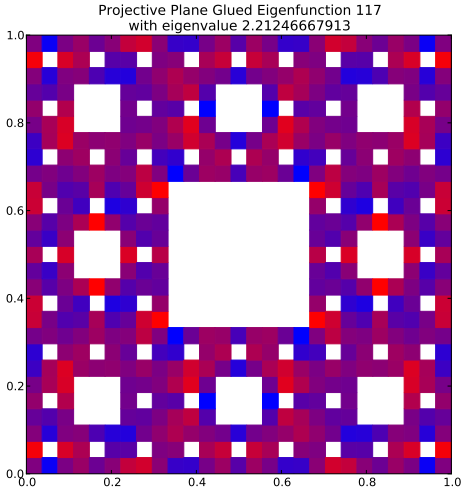
$M = 4$ Eigenfunction 122 has eigenvalue 0.437279011136





Compare to $m = 3$ eigenspace with eigenvalue 2.21246667913

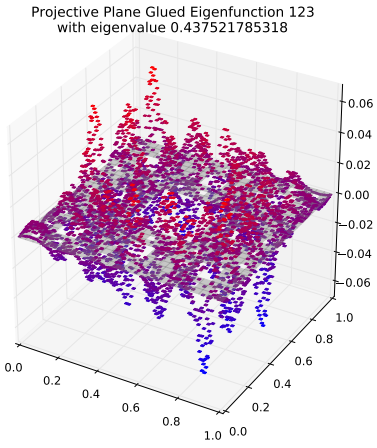


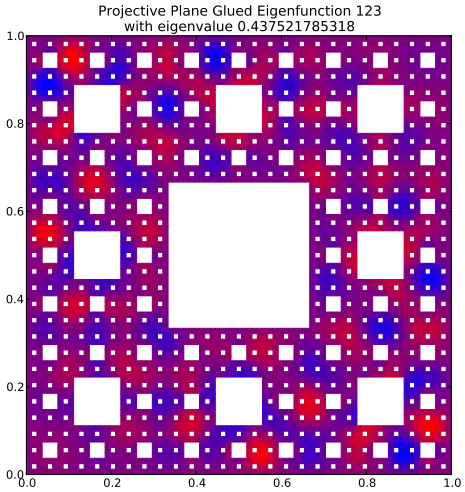


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.197643207584$
Dot Value: 0.36024448245527296

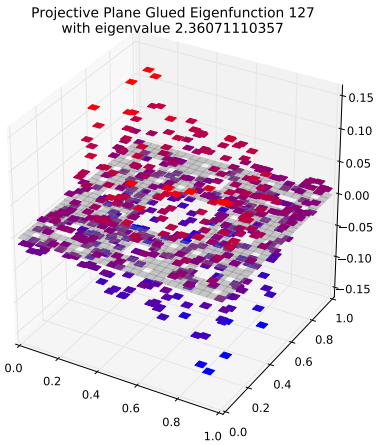
124 $M = 4$ Eigenfunction 123

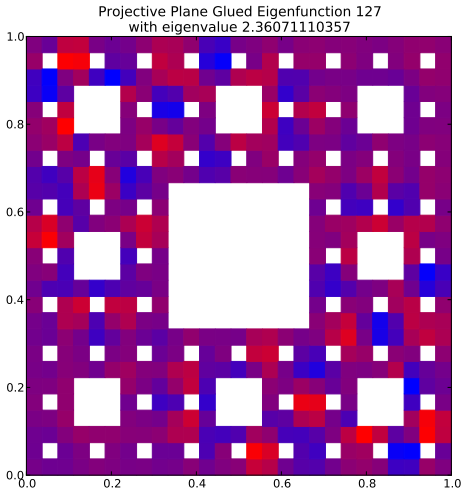
$M = 4$ Eigenfunction 123 has eigenvalue 0.437521785318





Compare to $m = 3$ eigenspace with eigenvalue 2.36071110357
(Note: Eigenspace Dimension > 1)

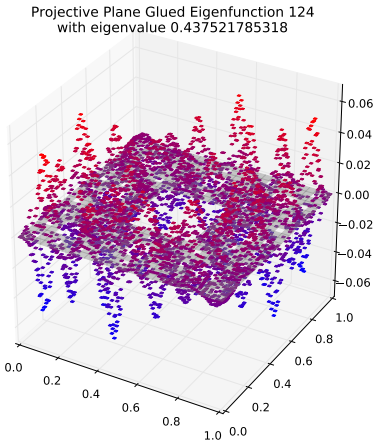


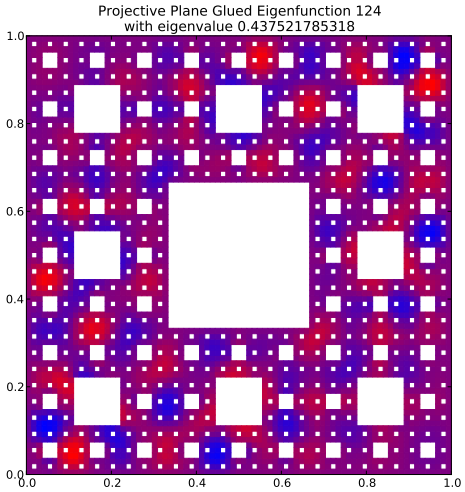


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.185334742848$
Dot Value: 0.08343859445796631

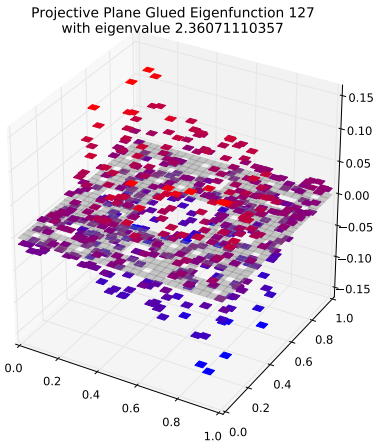
125 $M = 4$ Eigenfunction 124

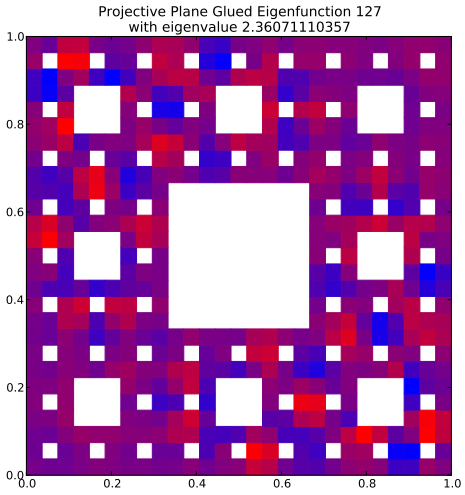
$M = 4$ Eigenfunction 124 has eigenvalue 0.437521785318





Compare to $m = 3$ eigenspace with eigenvalue 2.36071110357
(Note: Eigenspace Dimension > 1)

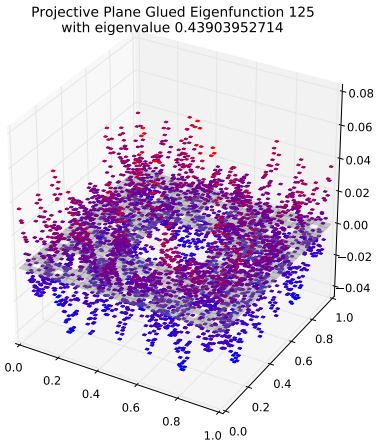


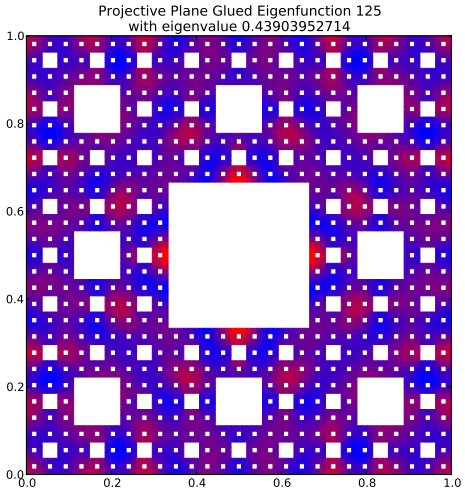


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.185334742848$
Dot Value: 0.083438594457939

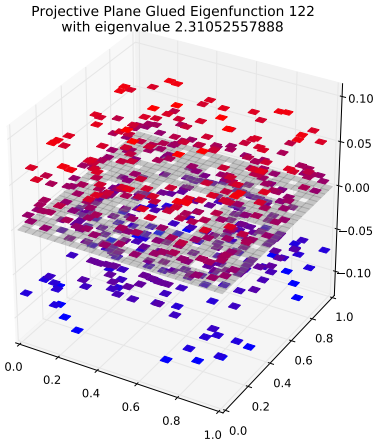
126 $M = 4$ Eigenfunction 125

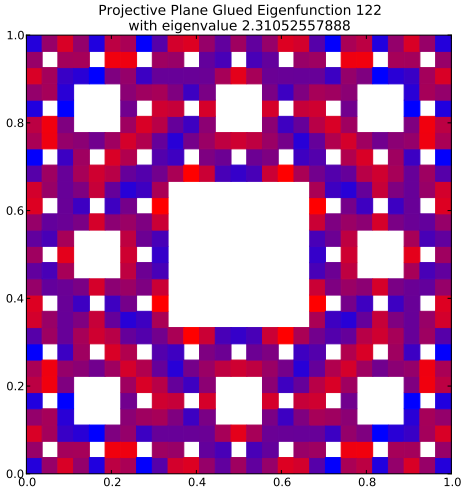
$M = 4$ Eigenfunction 125 has eigenvalue 0.43903952714





Compare to $m = 3$ eigenspace with eigenvalue 2.31052557888

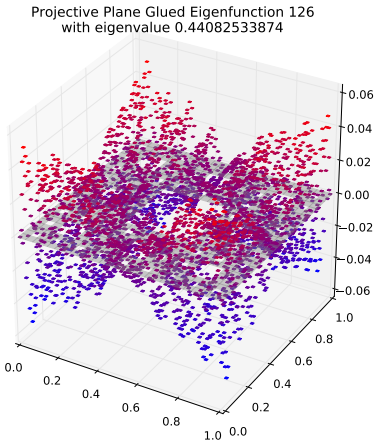


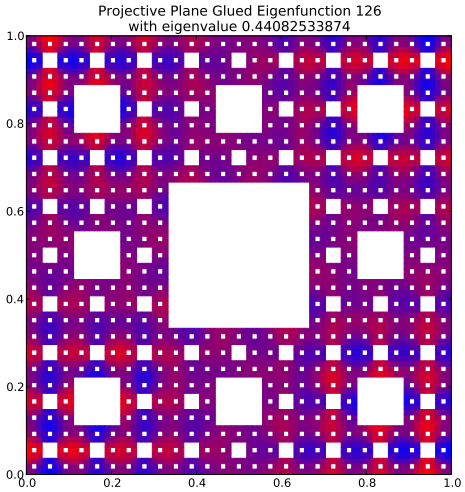


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.190017168021$
Dot Value: 0.27066991749786773

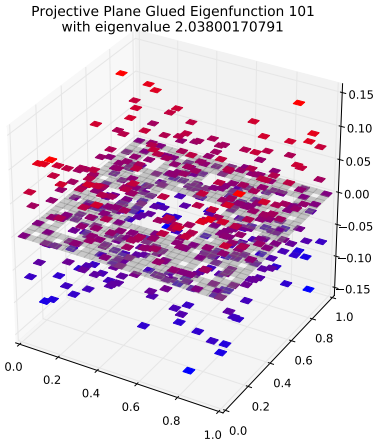
127 $M = 4$ Eigenfunction 126

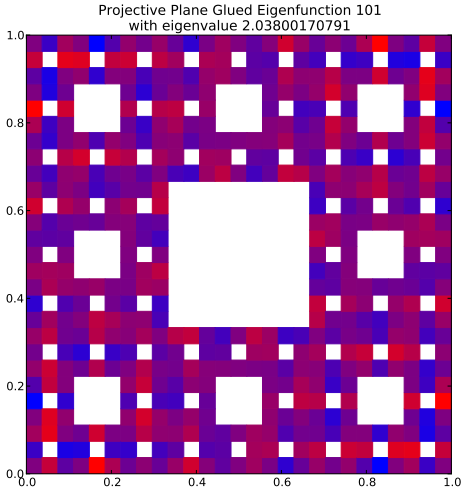
$M = 4$ Eigenfunction 126 has eigenvalue 0.44082533874





Compare to $m = 3$ eigenspace with eigenvalue 2.03800170791

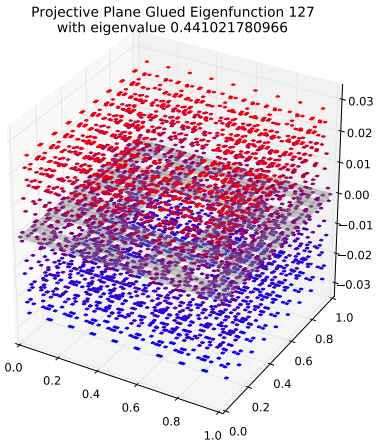


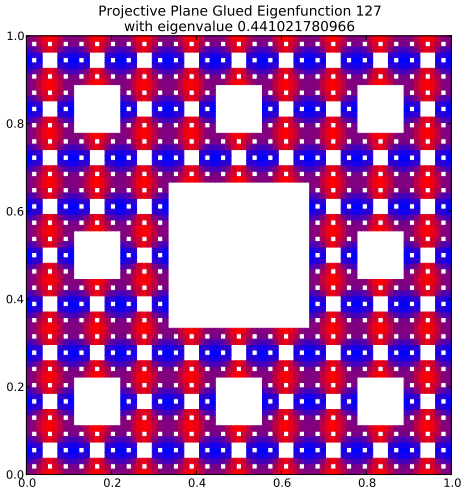


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.216302732735$
Dot Value: 0.13976969887845048

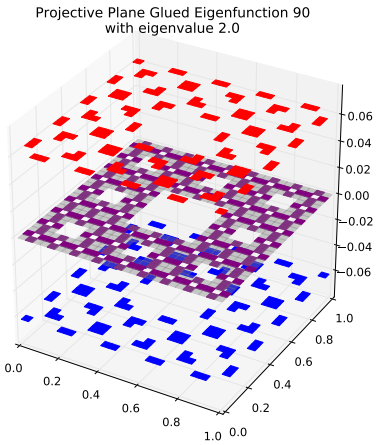
128 $M = 4$ Eigenfunction 127

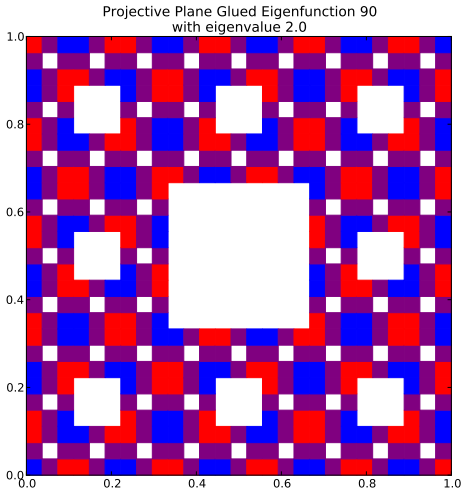
$M = 4$ Eigenfunction 127 has eigenvalue 0.441021780966





Compare to $m = 3$ eigenspace with eigenvalue 2.0
(Note: Eigenspace Dimension > 1)

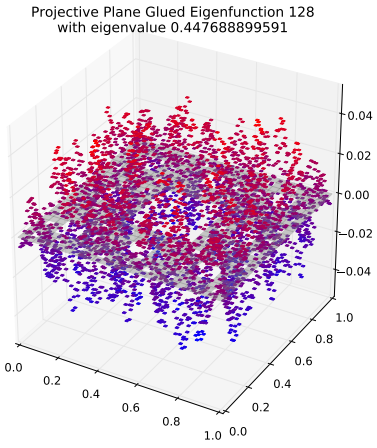


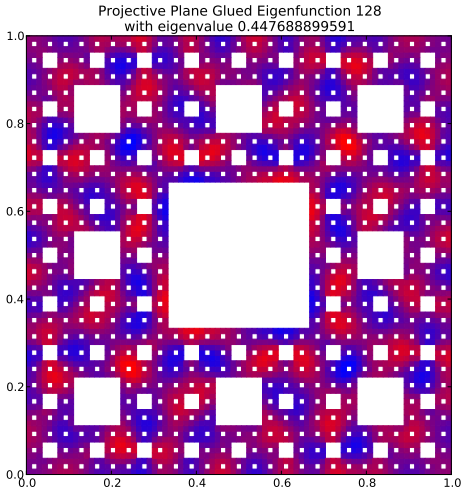


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.220510890483$
Dot Value: 0.0

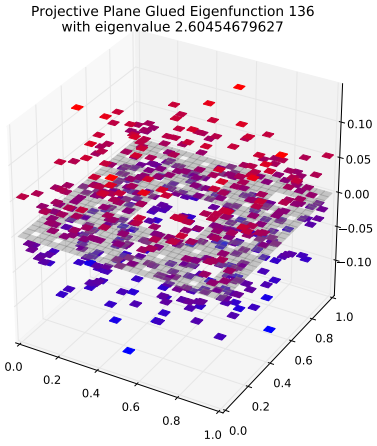
129 $M = 4$ Eigenfunction 128

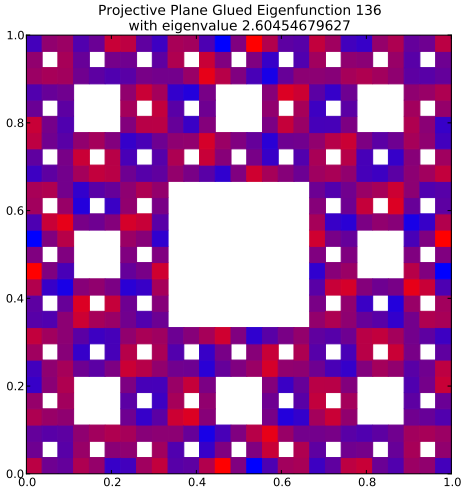
$M = 4$ Eigenfunction 128 has eigenvalue 0.447688899591





Compare to $m = 3$ eigenspace with eigenvalue 2.60454679627

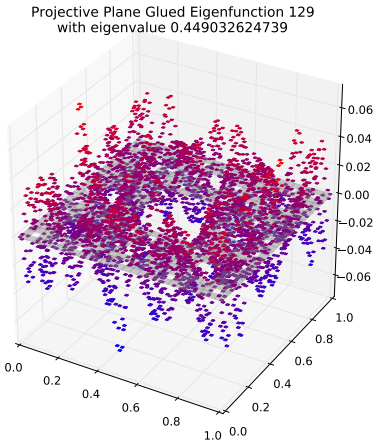


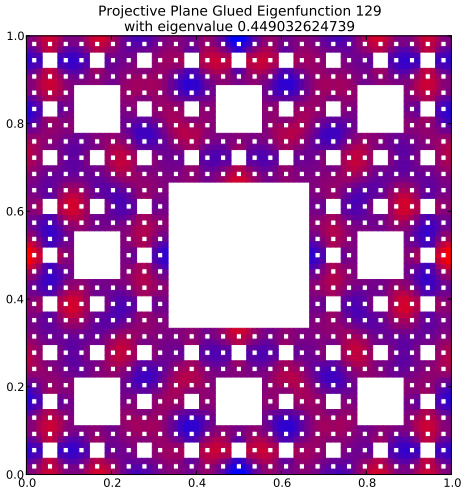


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.171887447072$
Dot Value: 0.4402100852973181

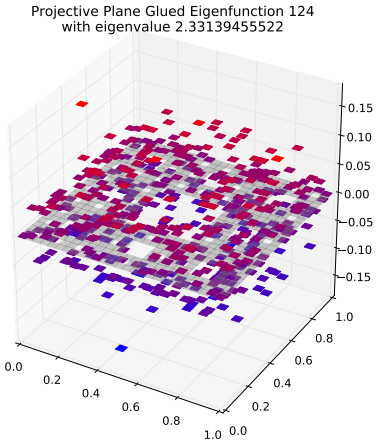
130 $M = 4$ Eigenfunction 129

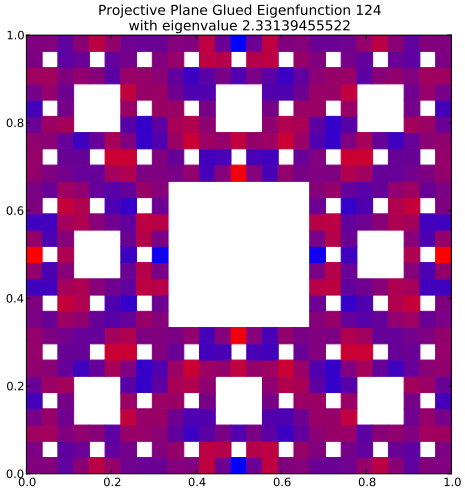
$M = 4$ Eigenfunction 129 has eigenvalue 0.449032624739





Compare to $m = 3$ eigenspace with eigenvalue 2.33139455522

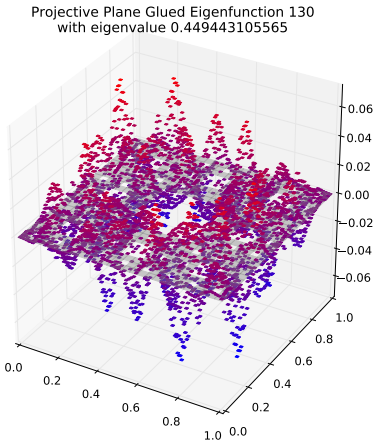


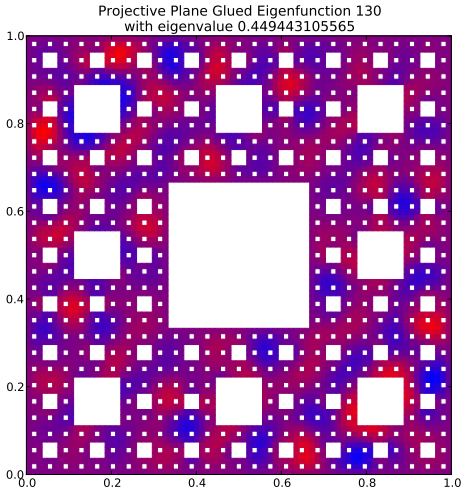


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.192602587895$
Dot Value: 0.1561313210614338

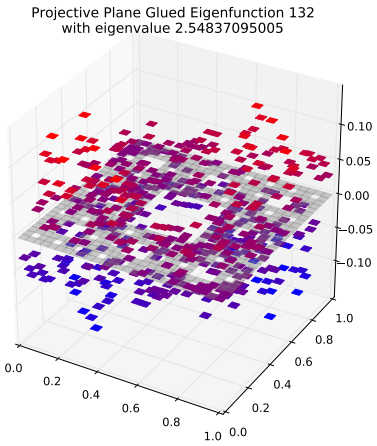
131 $M = 4$ Eigenfunction 130

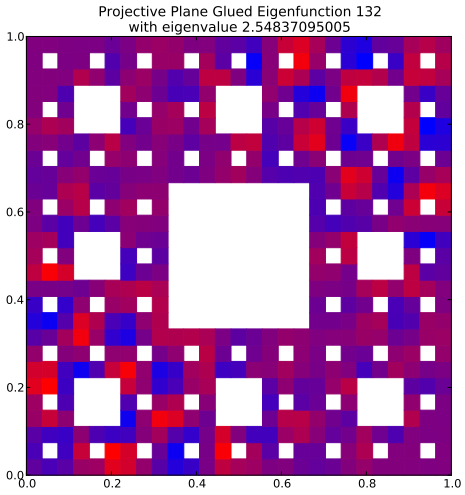
$M = 4$ Eigenfunction 130 has eigenvalue 0.449443105565





Compare to $m = 3$ eigenspace with eigenvalue 2.54837095005
(Note: Eigenspace Dimension > 1)

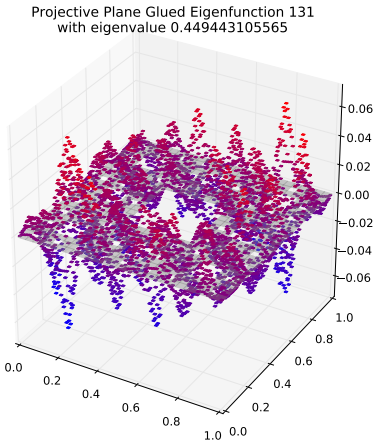


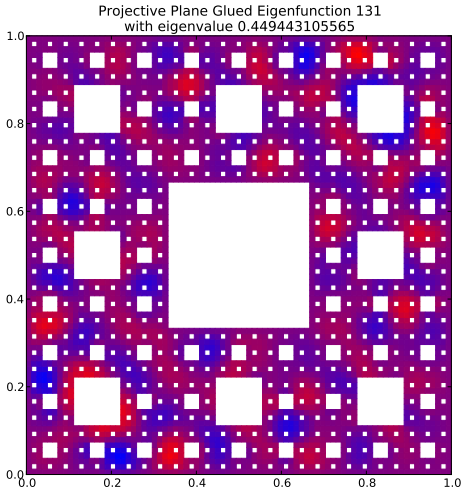


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.176364867743$
Dot Value: 0.21492581667441135

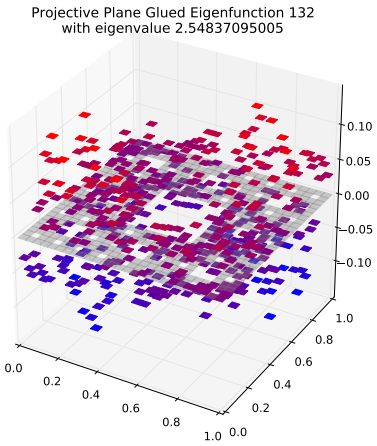
132 $M = 4$ Eigenfunction 131

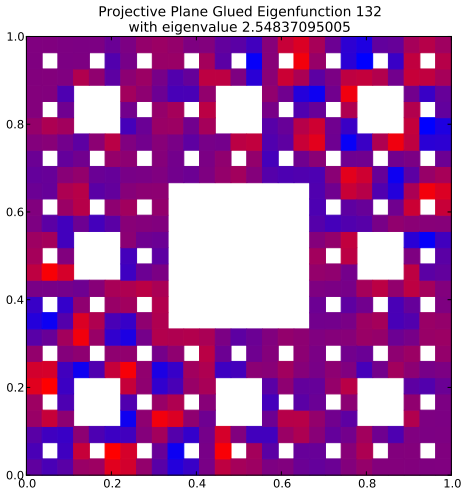
$M = 4$ Eigenfunction 131 has eigenvalue 0.449443105565





Compare to $m = 3$ eigenspace with eigenvalue 2.54837095005
(Note: Eigenspace Dimension > 1)

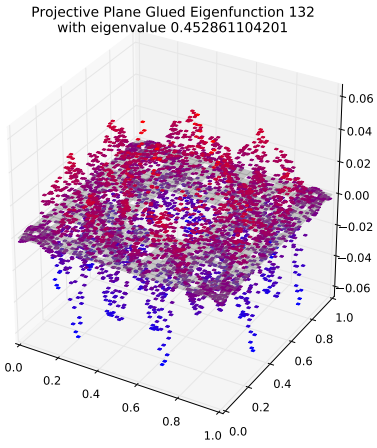


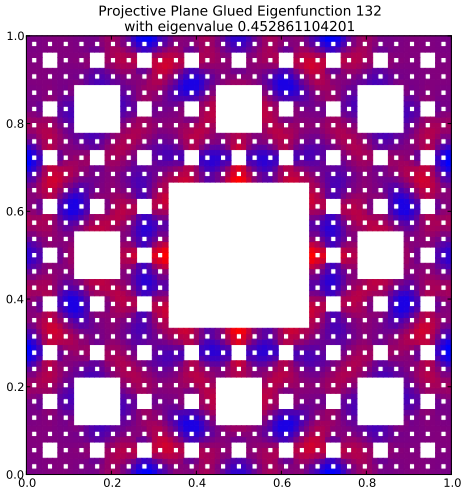


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.176364867743$
Dot Value: 0.2149258166744159

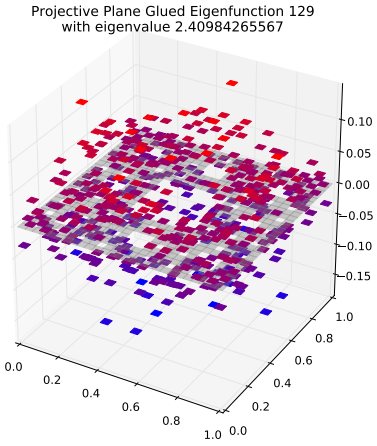
133 $M = 4$ Eigenfunction 132

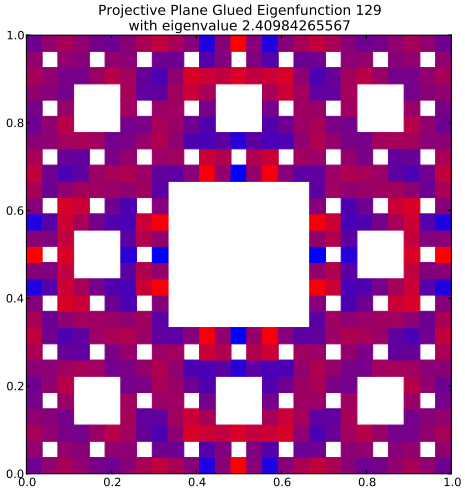
$M = 4$ Eigenfunction 132 has eigenvalue 0.452861104201





Compare to $m = 3$ eigenspace with eigenvalue 2.40984265567

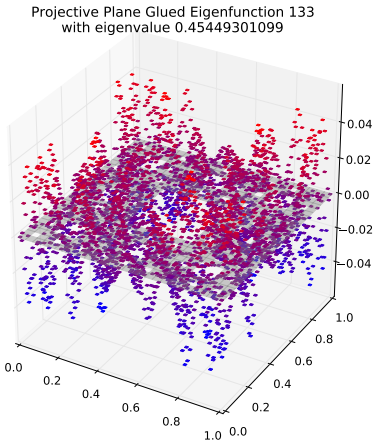


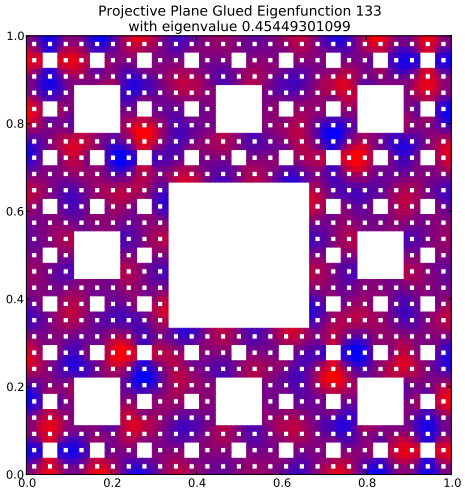


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.187921440902$
Dot Value: 0.27580196471667295

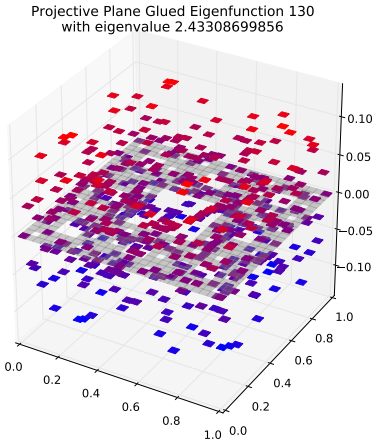
134 $M = 4$ Eigenfunction 133

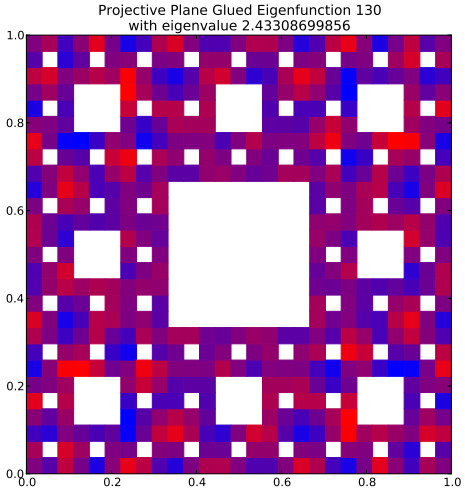
$M = 4$ Eigenfunction 133 has eigenvalue 0.45449301099





Compare to $m = 3$ eigenspace with eigenvalue 2.43308699856

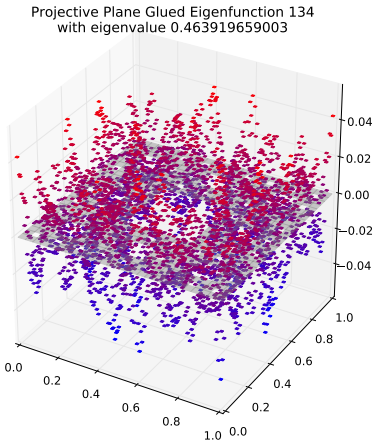


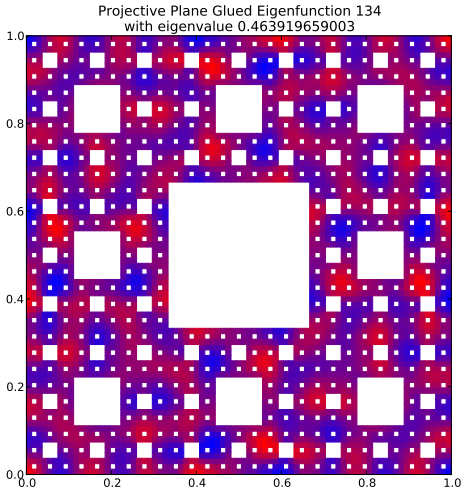


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.186796859816$
Dot Value: 0.22066196571620522

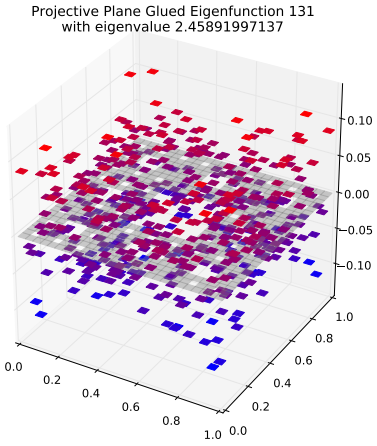
135 $M = 4$ Eigenfunction 134

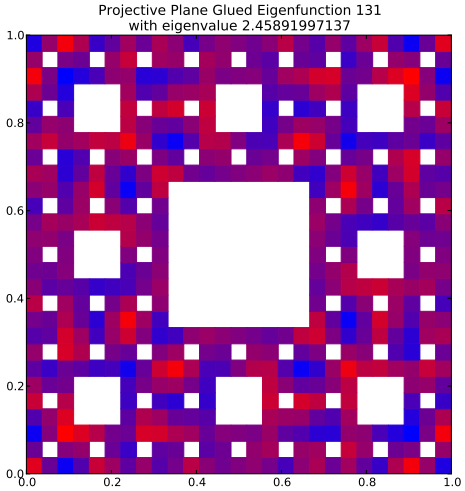
$M = 4$ Eigenfunction 134 has eigenvalue 0.463919659003





Compare to $m = 3$ eigenspace with eigenvalue 2.45891997137

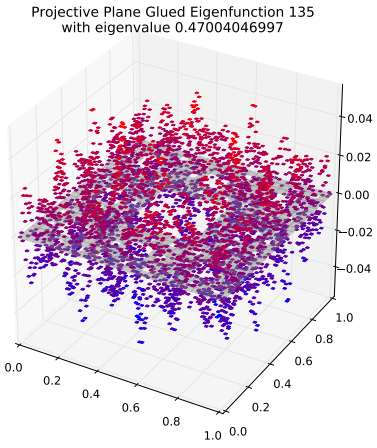


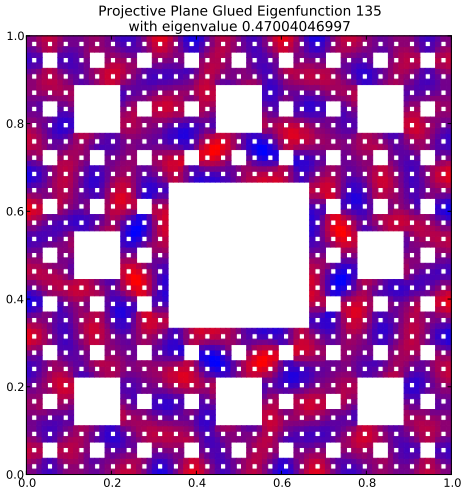


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.188668059312$
Dot Value: 0.39589125281069404

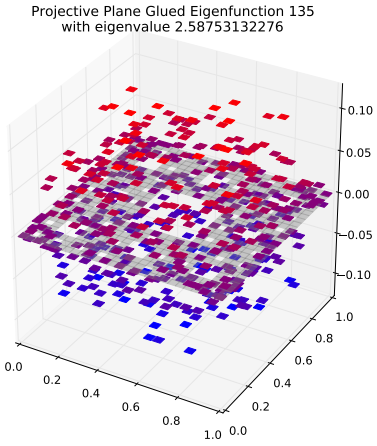
136 $M = 4$ Eigenfunction 135

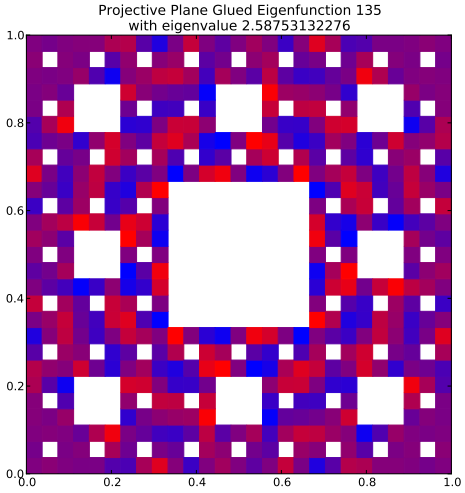
$M = 4$ Eigenfunction 135 has eigenvalue 0.47004046997





Compare to $m = 3$ eigenspace with eigenvalue 2.58753132276

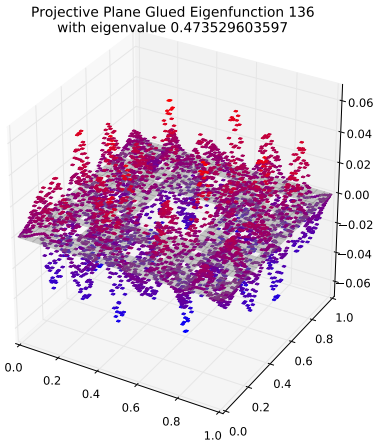


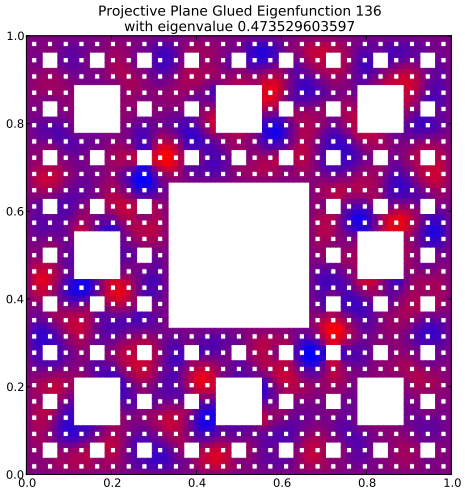


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.181655953625$
Dot Value: 0.14219539026216244

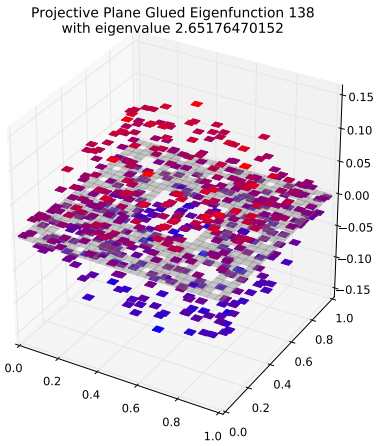
137 $M = 4$ Eigenfunction 136

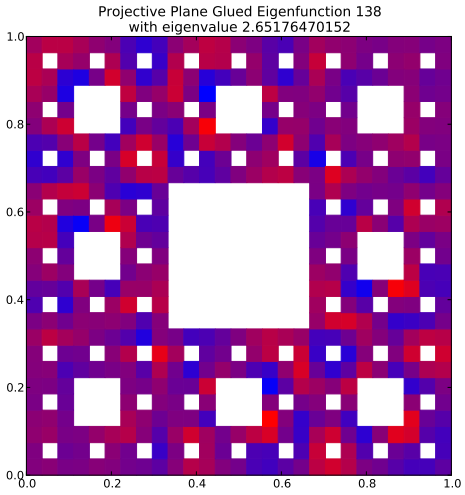
$M = 4$ Eigenfunction 136 has eigenvalue 0.473529603597





Compare to $m = 3$ eigenspace with eigenvalue 2.65176470152
(Note: Eigenspace Dimension > 1)

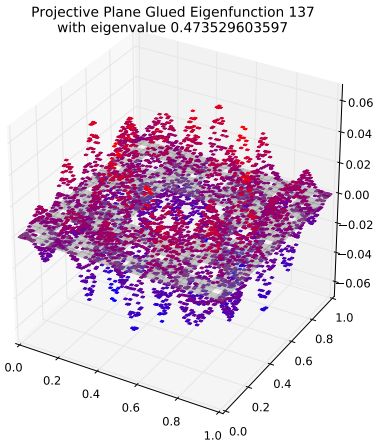


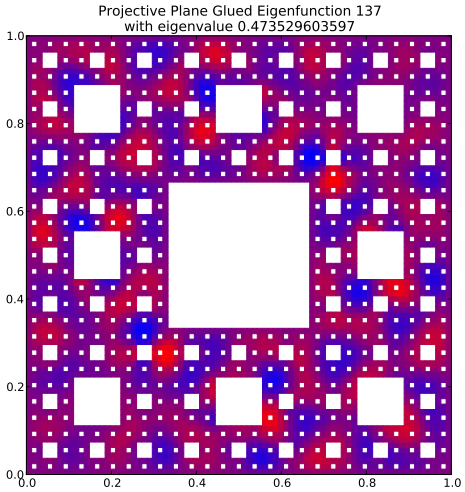


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.178571501207$
Dot Value: 0.15174204320223317

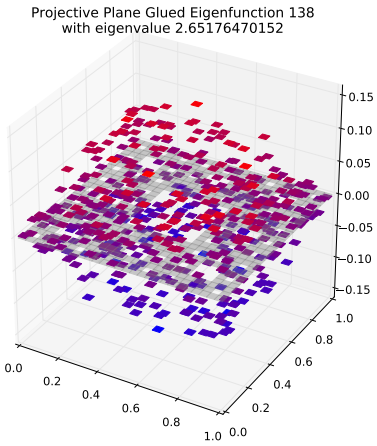
138 $M = 4$ Eigenfunction 137

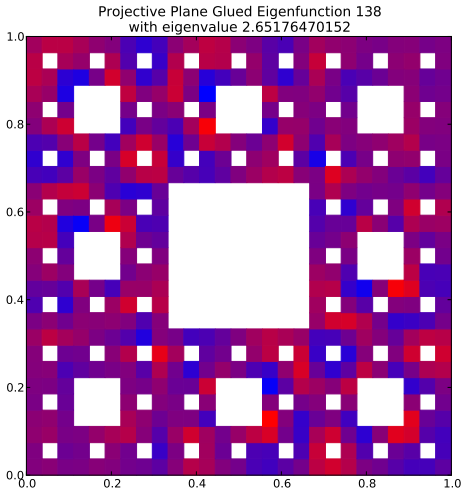
$M = 4$ Eigenfunction 137 has eigenvalue 0.473529603597





Compare to $m = 3$ eigenspace with eigenvalue 2.65176470152
(Note: Eigenspace Dimension > 1)

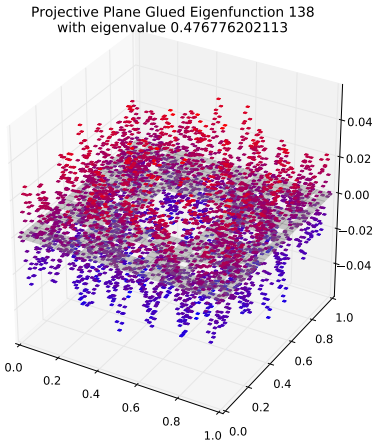


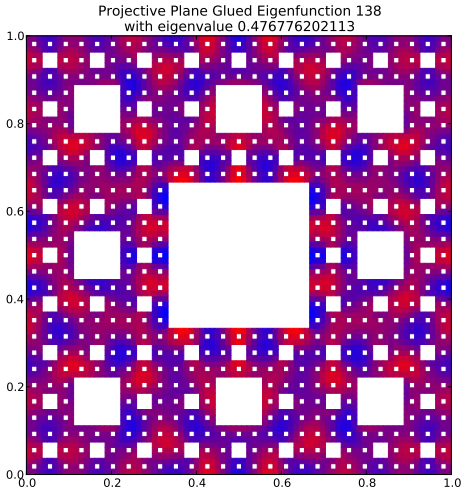


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.178571501207$
Dot Value: 0.15174204320225526

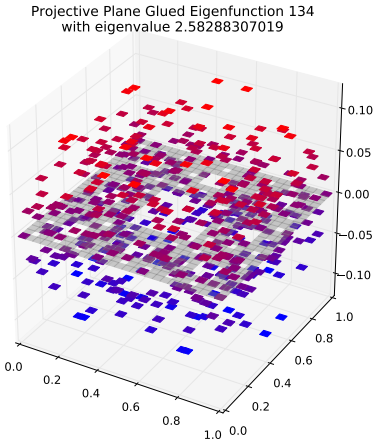
139 $M = 4$ Eigenfunction 138

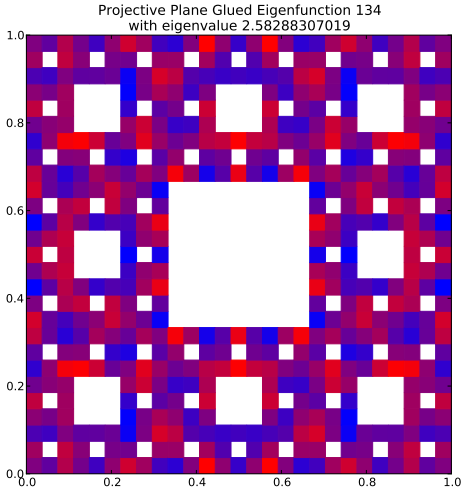
$M = 4$ Eigenfunction 138 has eigenvalue 0.476776202113





Compare to $m = 3$ eigenspace with eigenvalue 2.58288307019

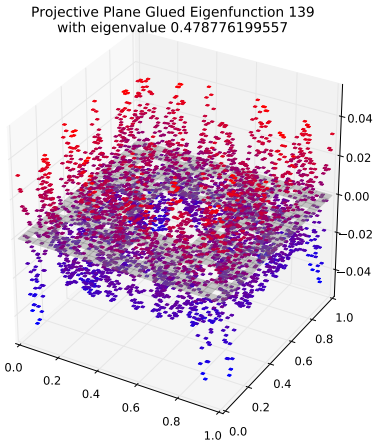


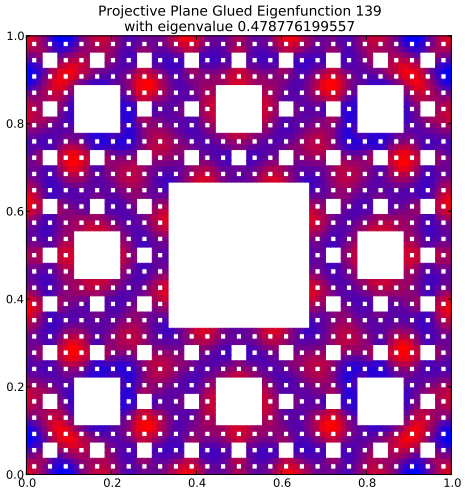


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.184590703162$
Dot Value: 0.11410547523837111

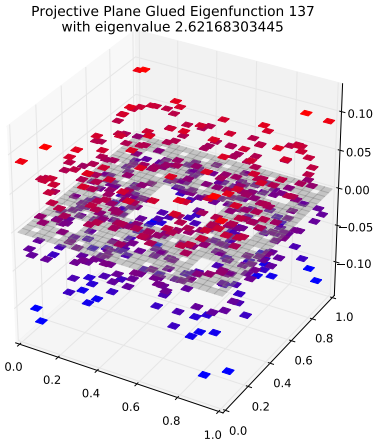
140 $M = 4$ Eigenfunction 139

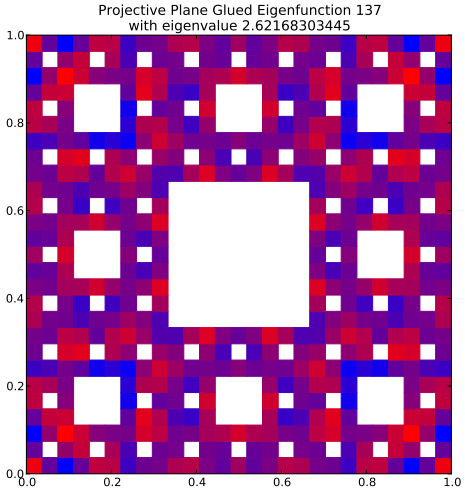
$M = 4$ Eigenfunction 139 has eigenvalue 0.478776199557





Compare to $m = 3$ eigenspace with eigenvalue 2.62168303445

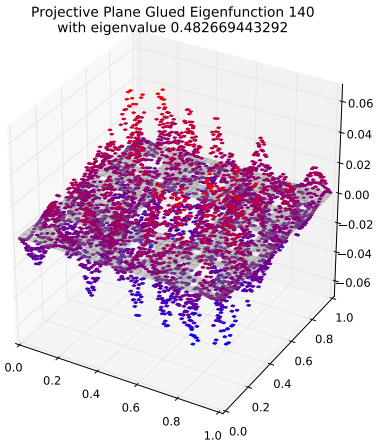


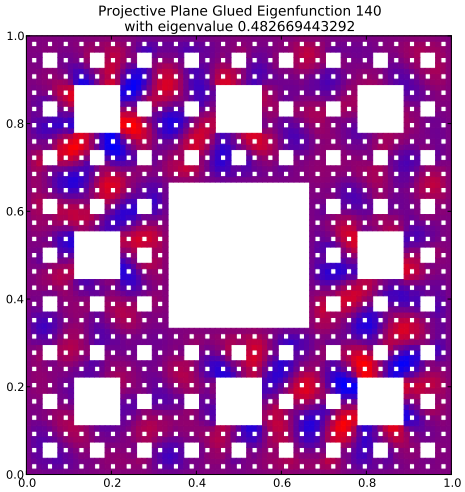


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.18262169502$
Dot Value: 0.08807315106096669

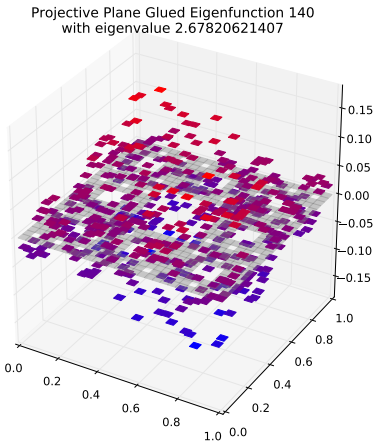
141 $M = 4$ Eigenfunction 140

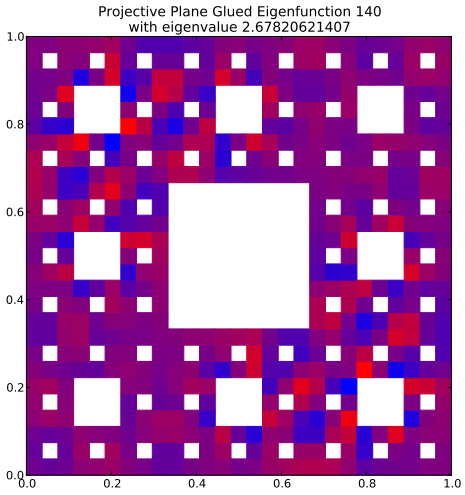
$M = 4$ Eigenfunction 140 has eigenvalue 0.482669443292





Compare to $m = 3$ eigenspace with eigenvalue 2.67820621407
(Note: Eigenspace Dimension > 1)

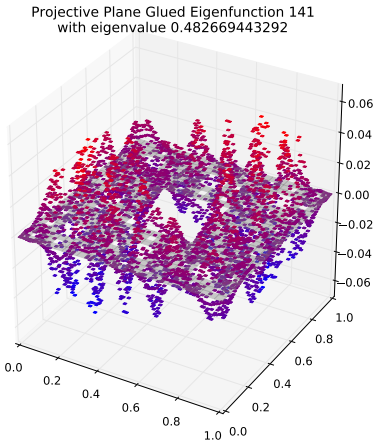


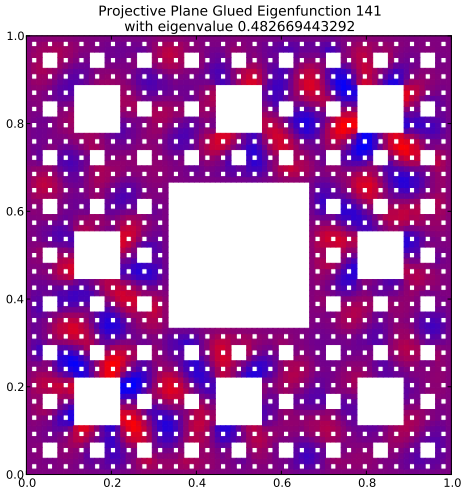


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.180221164732$
Dot Value: 0.09475619724591722

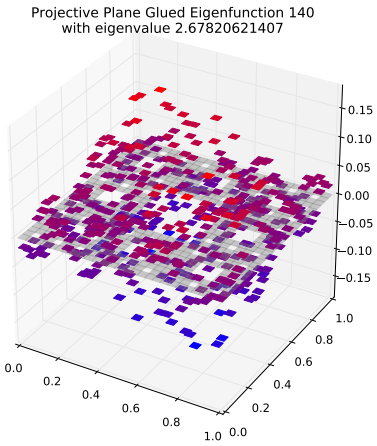
142 $M = 4$ Eigenfunction 141

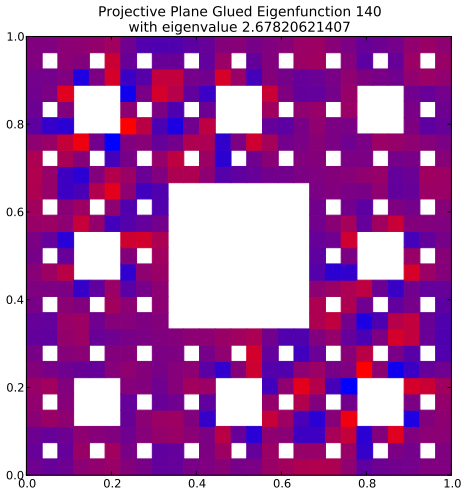
$M = 4$ Eigenfunction 141 has eigenvalue 0.482669443292





Compare to $m = 3$ eigenspace with eigenvalue 2.67820621407
(Note: Eigenspace Dimension > 1)

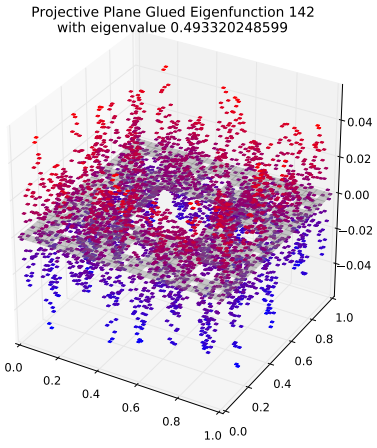


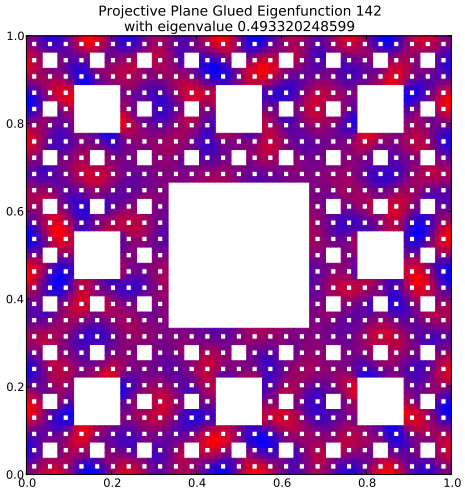


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.180221164732$
Dot Value: 0.09475619724595019

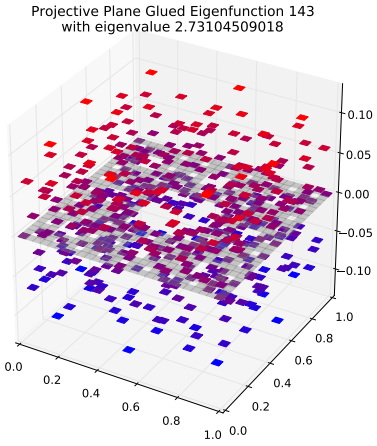
143 $M = 4$ Eigenfunction 142

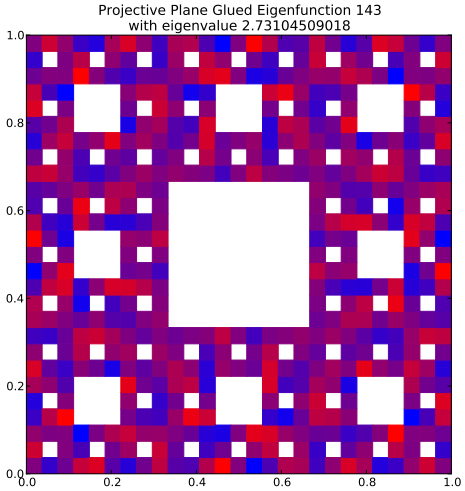
$M = 4$ Eigenfunction 142 has eigenvalue 0.493320248599





Compare to $m = 3$ eigenspace with eigenvalue 2.73104509018

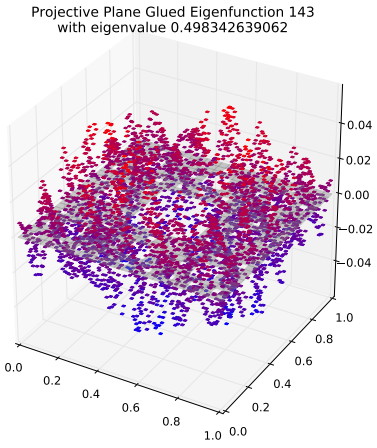


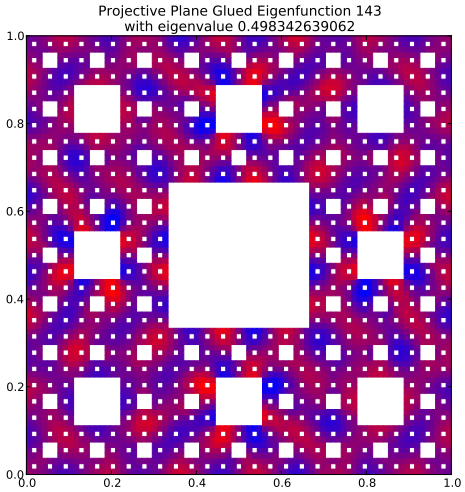


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.180634237924$
Dot Value: 0.05810842785204695

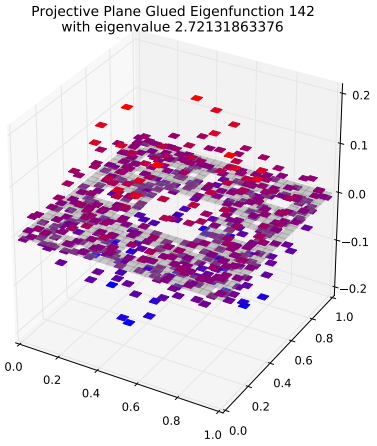
144 $M = 4$ Eigenfunction 143

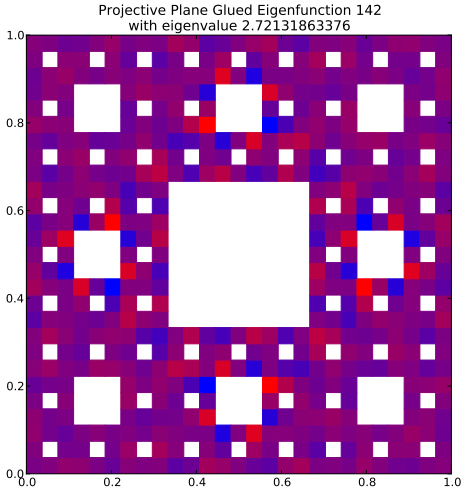
$M = 4$ Eigenfunction 143 has eigenvalue 0.498342639062





Compare to $m = 3$ eigenspace with eigenvalue 2.72131863376

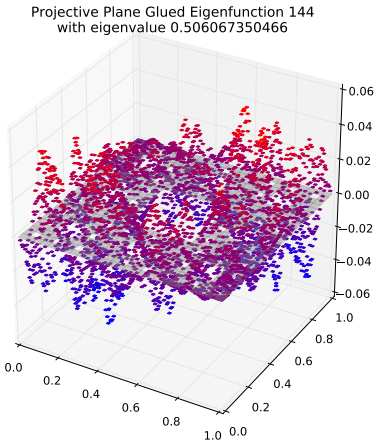


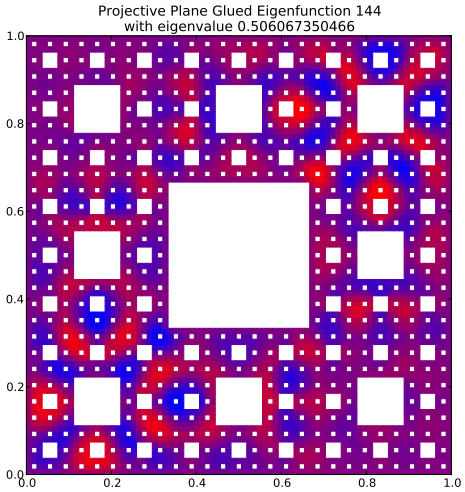


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.183125427827$
Dot Value: 0.13028971389459232

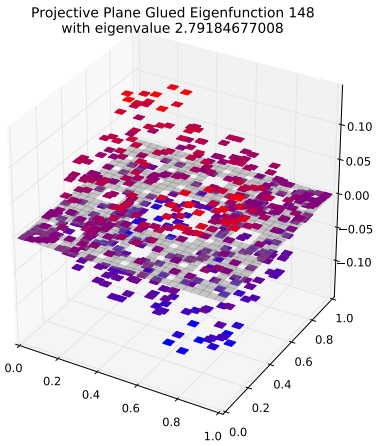
145 $M = 4$ Eigenfunction 144

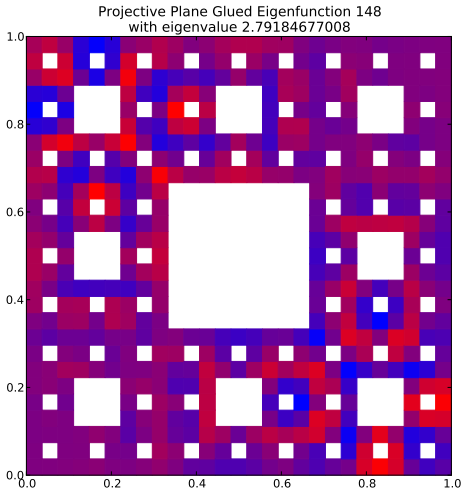
$M = 4$ Eigenfunction 144 has eigenvalue 0.506067350466





Compare to $m = 3$ eigenspace with eigenvalue 2.79184677008
(Note: Eigenspace Dimension > 1)

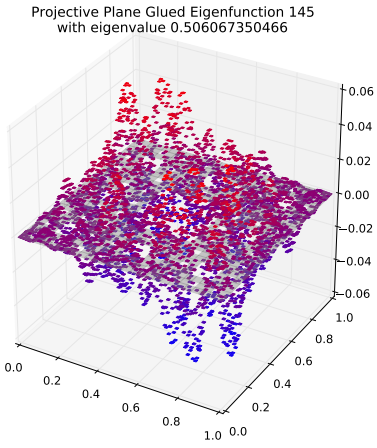


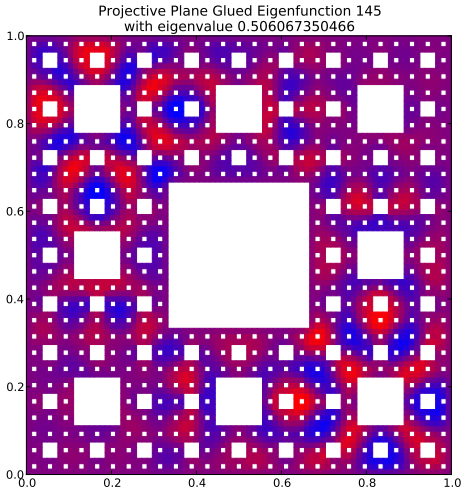


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.181266162559$
Dot Value: 0.07019552972777265

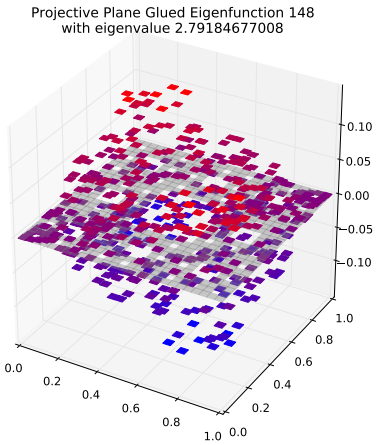
146 $M = 4$ Eigenfunction 145

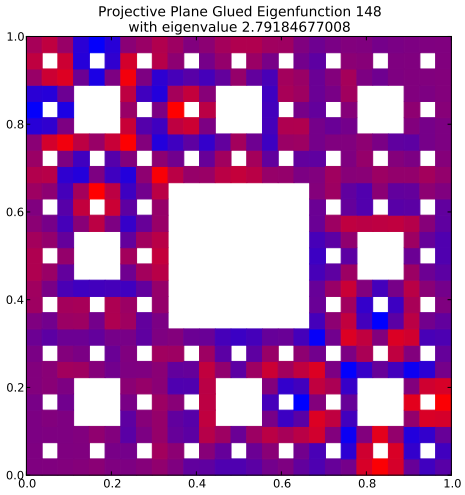
$M = 4$ Eigenfunction 145 has eigenvalue 0.506067350466





Compare to $m = 3$ eigenspace with eigenvalue 2.79184677008
(Note: Eigenspace Dimension > 1)

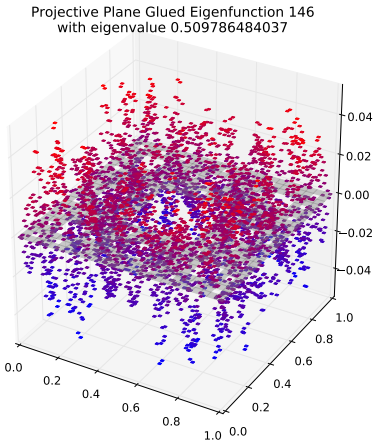


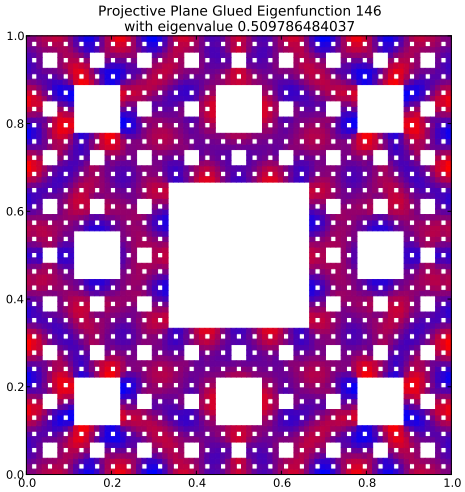


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.181266162559$
Dot Value: 0.07019552972777643

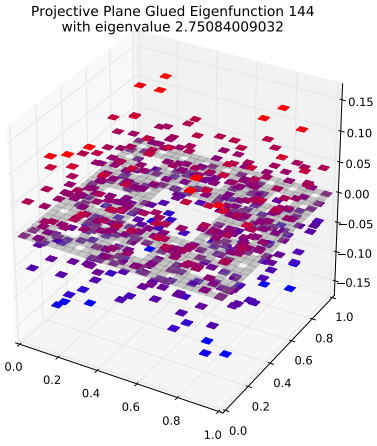
147 $M = 4$ Eigenfunction 146

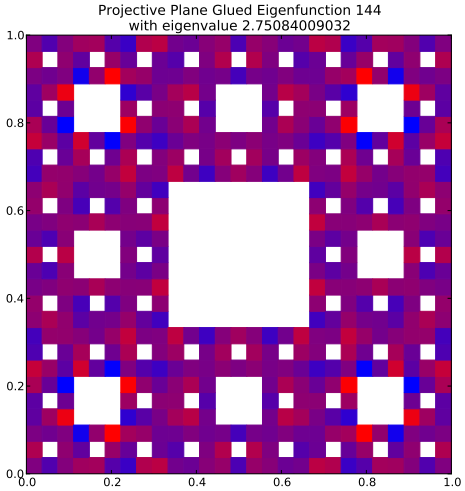
$M = 4$ Eigenfunction 146 has eigenvalue 0.509786484037





Compare to $m = 3$ eigenspace with eigenvalue 2.75084009032

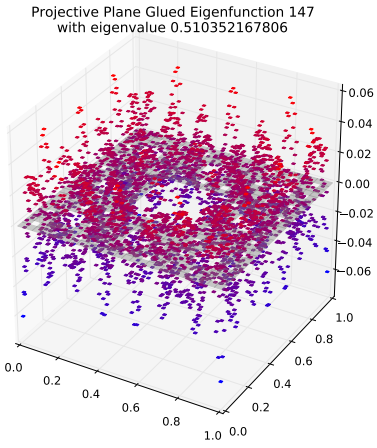


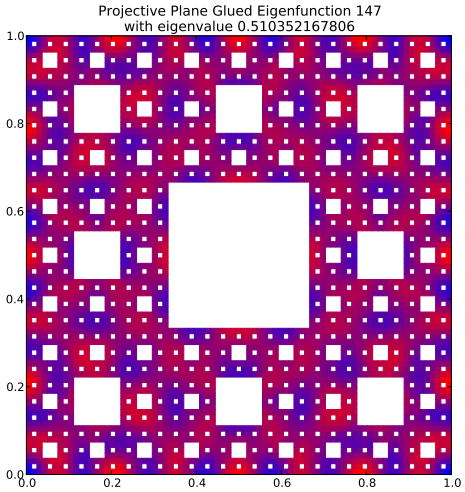


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.185320290274$
Dot Value: 0.0966420396697728

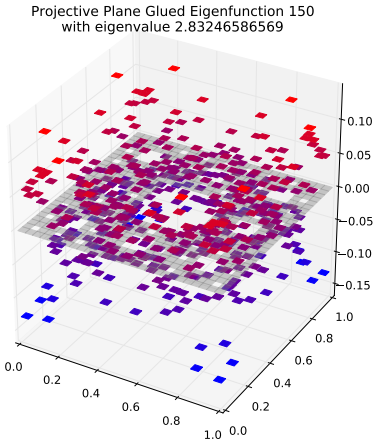
148 $M = 4$ Eigenfunction 147

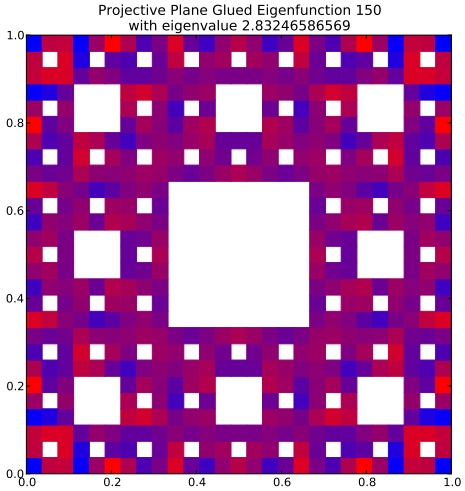
$M = 4$ Eigenfunction 147 has eigenvalue 0.510352167806





Compare to $m = 3$ eigenspace with eigenvalue 2.83246586569

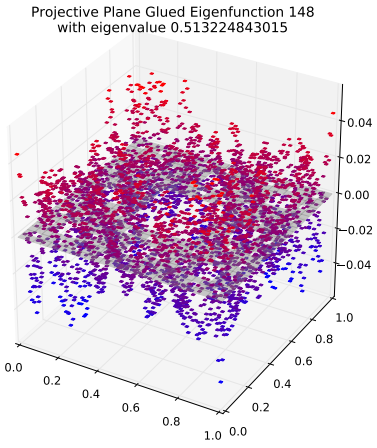


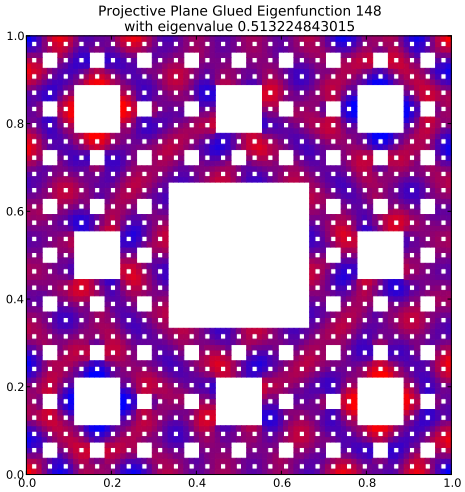


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.180179459173$
Dot Value: 0.1273171879241375

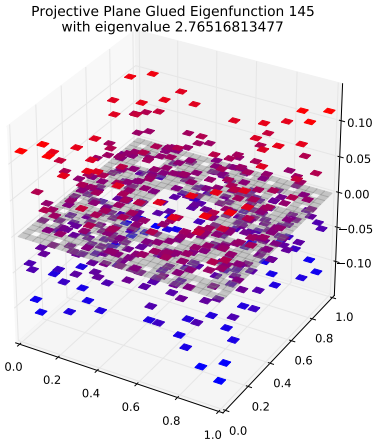
149 $M = 4$ Eigenfunction 148

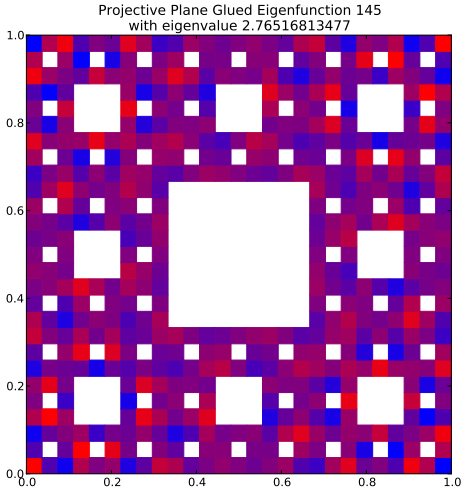
$M = 4$ Eigenfunction 148 has eigenvalue 0.513224843015





Compare to $m = 3$ eigenspace with eigenvalue 2.76516813477

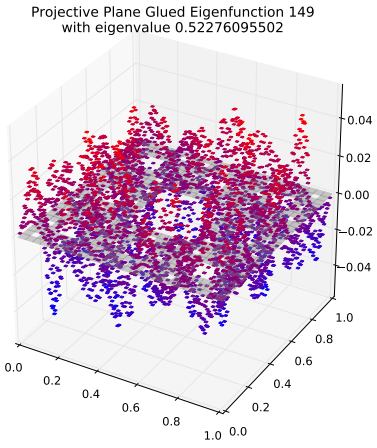


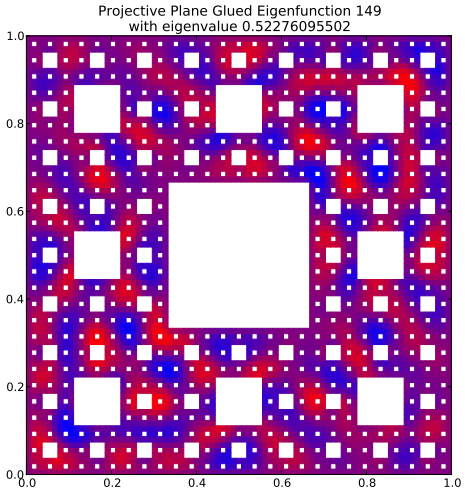


Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.185603485214$
Dot Value: 0.13373760844051896

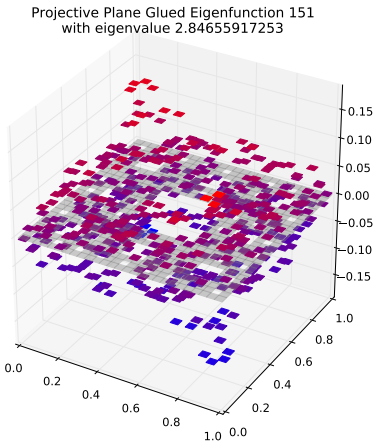
150 $M = 4$ Eigenfunction 149

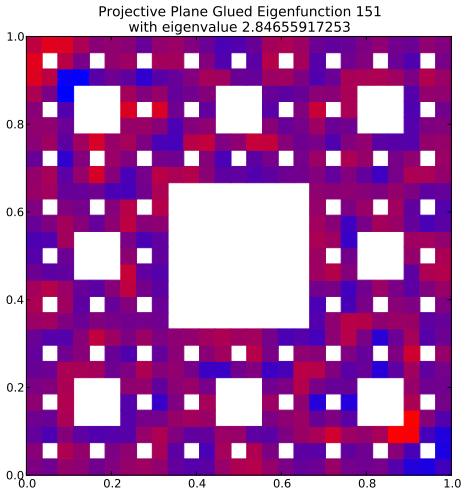
$M = 4$ Eigenfunction 149 has eigenvalue 0.52276095502





Compare to $m = 3$ eigenspace with eigenvalue 2.84655917253
(Note: Eigenspace Dimension > 1)





Eigenvalue Ratio: $\lambda_4/\lambda_3 = 0.183646614504$
Dot Value: 0.13155288832105938