

# First 150 Eigenfunctions of the Graph Laplacian for $M = 4$ with Projective Plane Glued Identifications

SPUR 2016

August 1, 2016

Eigenvalues:

0. -1.2923689896e-15	31. 0.132052629218	62. 0.254541991168
1. 0.0074541402554	32. 0.132052629218	63. 0.261053135207
2. 0.0115115905183	33. 0.151048576676	64. 0.263015071414
3. 0.0194030884296	34. 0.153147070337	65. 0.263015071414
4. 0.0292749396921	35. 0.156124060362	66. 0.264757643627
5. 0.0292749396921	36. 0.156561958599	67. 0.268698126112
6. 0.03732921415	37. 0.156972763305	68. 0.272534710077
7. 0.0380849122341	38. 0.156972763305	69. 0.274585003521
8. 0.0403709170848	39. 0.167334642243	70. 0.280829552275
9. 0.0466162837544	40. 0.167457758884	71. 0.289889220977
10. 0.0477564698621	41. 0.167457758884	72. 0.291444852251
11. 0.0541733551099	42. 0.174302899987	73. 0.296681733722
12. 0.0541733551099	43. 0.180585784703	74. 0.301097408759
13. 0.0548888524153	44. 0.180585784703	75. 0.30582229936
14. 0.0690194060567	45. 0.185866643715	76. 0.306227315854
15. 0.069714834821	46. 0.185866643715	77. 0.306227315854
16. 0.0729374895584	47. 0.190427583746	78. 0.308081079139
17. 0.0858707538746	48. 0.199764583311	79. 0.308081079139
18. 0.0859227599551	49. 0.205966768699	80. 0.314152235205
19. 0.0879159736344	50. 0.21434139555	81. 0.318789340807
20. 0.0906978621861	51. 0.21434139555	82. 0.318879844524
21. 0.0906978621861	52. 0.217606605503	83. 0.319101619999
22. 0.101162271611	53. 0.226455074864	84. 0.340755295584
23. 0.101162271611	54. 0.233859691829	85. 0.342255371814
24. 0.109290993203	55. 0.238885667338	86. 0.343132966137
25. 0.115190142343	56. 0.240686989395	87. 0.343132966137
26. 0.115612157127	57. 0.240686989395	88. 0.347624845962
27. 0.121955558279	58. 0.246869249894	89. 0.348024371033
28. 0.123398454543	59. 0.247210774172	90. 0.348024371033
29. 0.126377269239	60. 0.248510328657	91. 0.355316044587
30. 0.126377269239	61. 0.248510328657	92. 0.35735290719

93. 0.365682988625	139. 0.478776199557	185. 0.63334482722
94. 0.365682988625	140. 0.482669443292	186. 0.645037376996
95. 0.369991443411	141. 0.482669443292	187. 0.645743725514
96. 0.377447108319	142. 0.493320248599	188. 0.645743725514
97. 0.37746805101	143. 0.498342639062	189. 0.64970114526
98. 0.37746805101	144. 0.506067350466	190. 0.653845874584
99. 0.379222607995	145. 0.506067350466	191. 0.658937553478
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101. 0.381605893353	147. 0.510352167806	193. 0.665393081925
102. 0.383136529878	148. 0.513224843015	194. 0.666483664844
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105. 0.393948610993	151. 0.533052379114	197. 0.674641071256
106. 0.397962653162	152. 0.53393976282	198. 0.676548049572
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109. 0.419942263623	155. 0.53913102013	201. 0.683491039362
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114. 0.426069362147	160. 0.561042724579	206. 0.700454348403
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116. 0.426547574067	162. 0.565646619923	208. 0.704435497826
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122. 0.437279011136	168. 0.589873576765	214. 0.718658712648
123. 0.437521785318	169. 0.589873576765	215. 0.719013507638
124. 0.437521785318	170. 0.594238837155	216. 0.720566994168
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647.	1.81800444979	693.	1.90364379694	739.	1.99193097052
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649.	1.82153224878	695.	1.90741910662	741.	1.99323226271
650.	1.82153224878	696.	1.90741910662	742.	1.9976274782
651.	1.82236885996	697.	1.90746420411	743.	1.9976274782
652.	1.8248585928	698.	1.91423605433	744.	2.0
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656.	1.83437433466	702.	1.91806935689	748.	2.0051425395
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659.	1.83928918869	705.	1.92796046813	751.	2.00948703877
660.	1.84142711222	706.	1.9294375438	752.	2.01038614825
661.	1.84578593301	707.	1.9294375438	753.	2.01038614825
662.	1.84609331524	708.	1.9302887971	754.	2.01486261538
663.	1.84609331524	709.	1.93071148292	755.	2.01567198701
664.	1.84777531681	710.	1.93211870944	756.	2.01657143234
665.	1.85678410925	711.	1.9396190264	757.	2.01792794614
666.	1.85688102165	712.	1.94143375134	758.	2.01792794614
667.	1.85688102165	713.	1.9428467317	759.	2.01809856463
668.	1.86186228467	714.	1.94398225165	760.	2.01923530947
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670.	1.8661108477	716.	1.94560493057	762.	2.02582432007
671.	1.86717774815	717.	1.94560493057	763.	2.02605096615
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2060.	3.9292335447	2106.	4.0212127442	2152.	4.11338244201
2061.	3.9292335447	2107.	4.0212127442	2153.	4.11338244201
2062.	3.93367395257	2108.	4.0251980416	2154.	4.11575357152
2063.	3.93367395257	2109.	4.04052108319	2155.	4.11711432166
2064.	3.936779764	2110.	4.04054869972	2156.	4.11711432166
2065.	3.93780377024	2111.	4.04054869972	2157.	4.11863881343
2066.	3.93780377024	2112.	4.04375534641	2158.	4.11880080347
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2068.	3.9425032679	2114.	4.05245840313	2160.	4.12134132851
2069.	3.94286804794	2115.	4.05479158217	2161.	4.1252961147
2070.	3.94286804794	2116.	4.05479158217	2162.	4.12563124453

2163.	4.12682791449	2209.	4.21391784603	2255.	4.29432434619
2164.	4.12889454727	2210.	4.21485694557	2256.	4.29432434619
2165.	4.13033023954	2211.	4.22126730219	2257.	4.29882436335
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2173.	4.1417322998	2219.	4.23404704623	2265.	4.31297668936
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2186.	4.16335348763	2232.	4.25485319315	2278.	4.33978565891
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2198.	4.19319789249	2244.	4.27358548451	2290.	4.35637245454
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2205.	4.20464536463	2251.	4.28361963622	2297.	4.37269130468
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2207.	4.21273953885	2253.	4.29123127257	2299.	4.37293806252
2208.	4.21391784603	2254.	4.29280958185	2300.	4.37528360261

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2307.	4.39060800021	2353.	4.47685148164	2399.	4.53181668174
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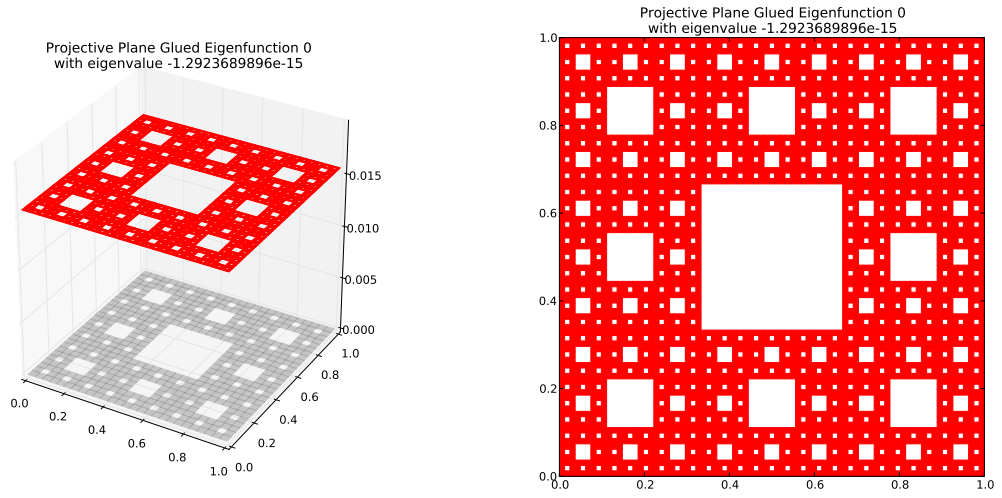
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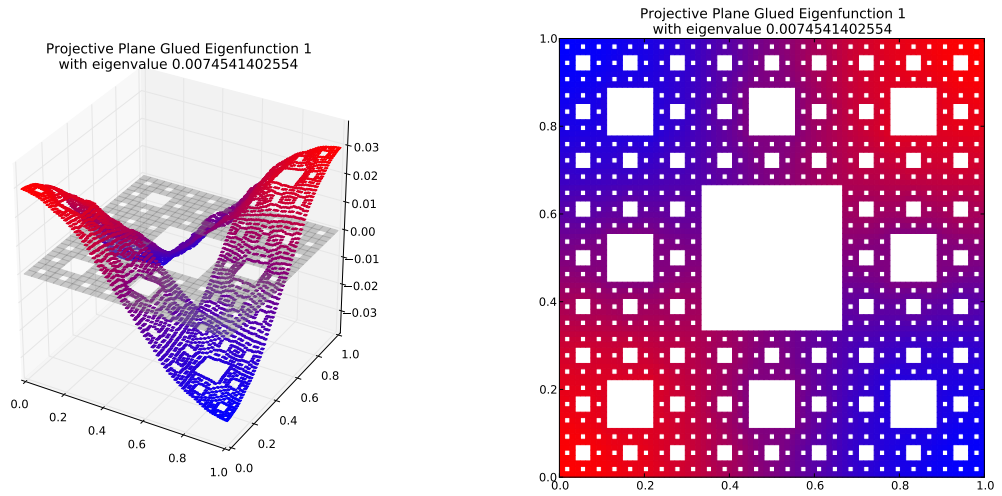
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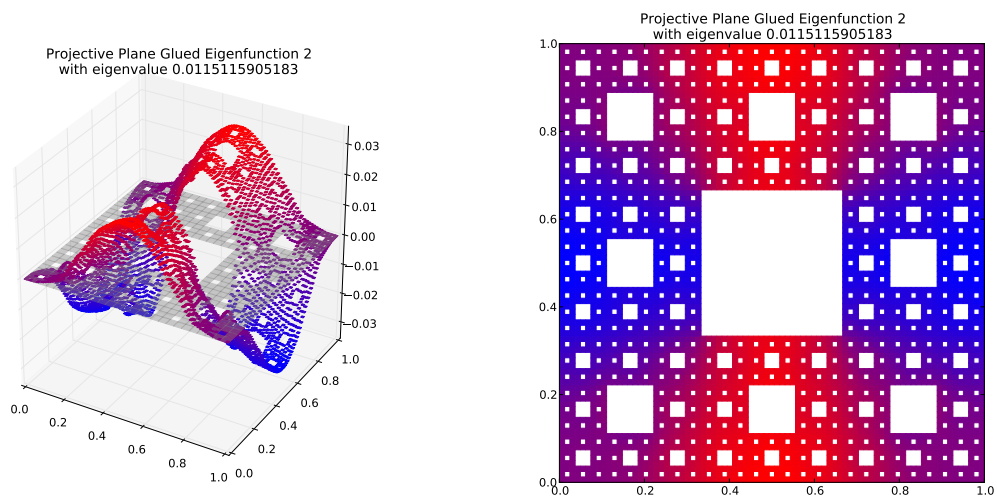
Eigenfunction 0 with eigenvalue  $-1.2923689896 \times 10^{-15}$



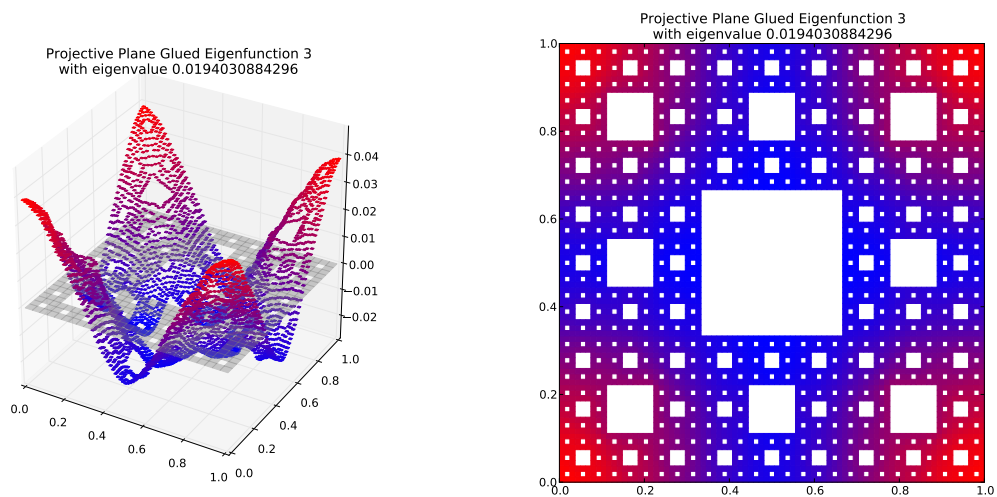
Eigenfunction 1 with eigenvalue  $0.0074541402554$



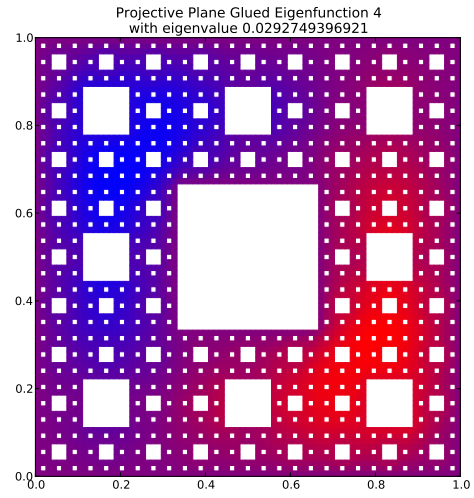
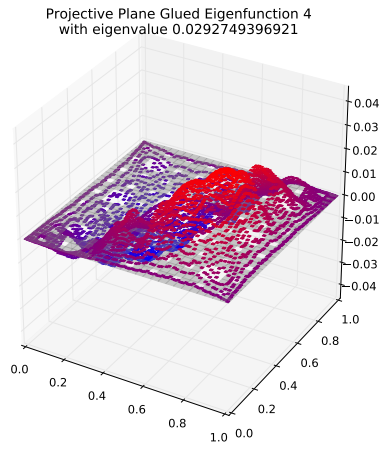
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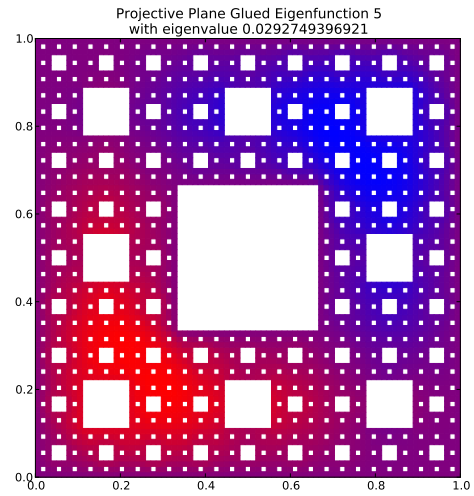
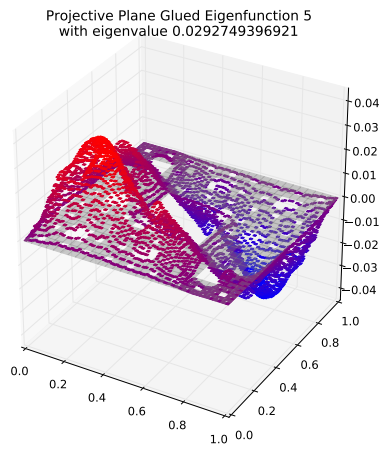
Eigenfunction 3 with eigenvalue 0.0194030884296



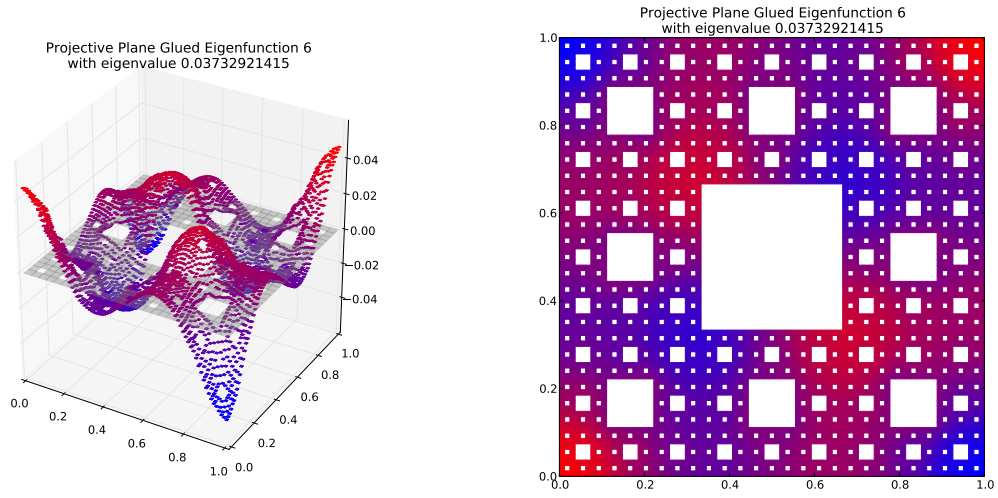
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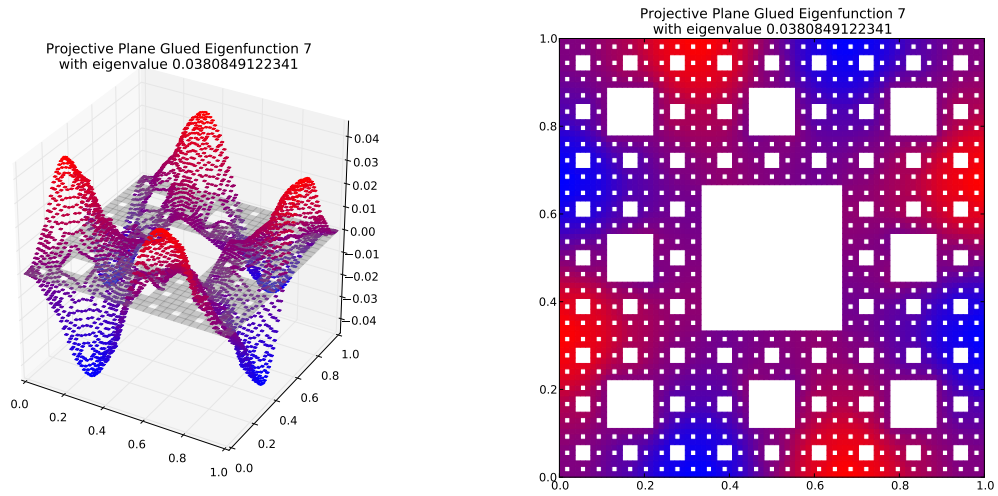
Eigenfunction 5 with eigenvalue 0.0292749396921



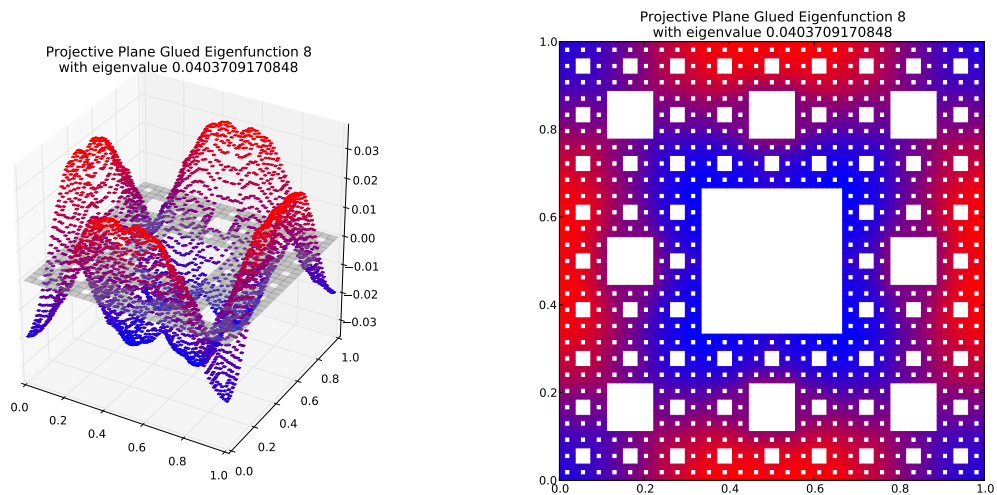
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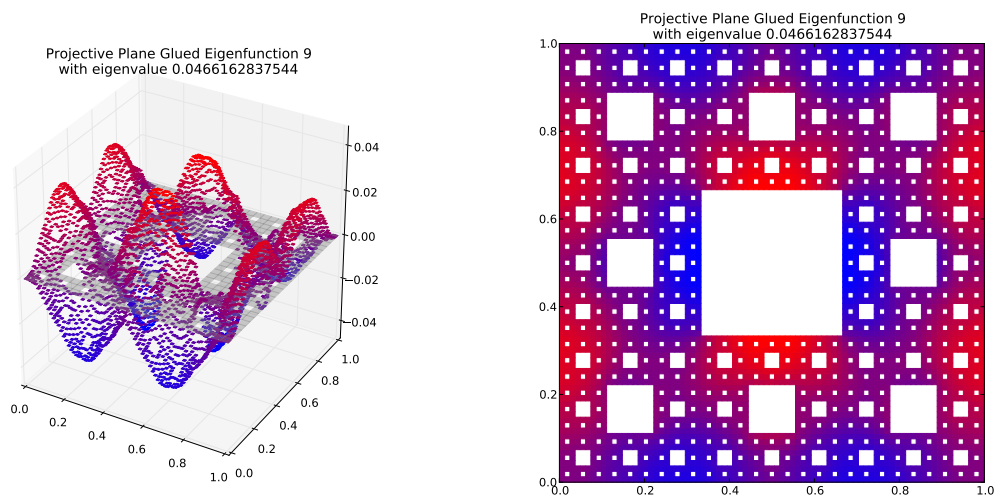
Eigenfunction 7 with eigenvalue 0.0380849122341



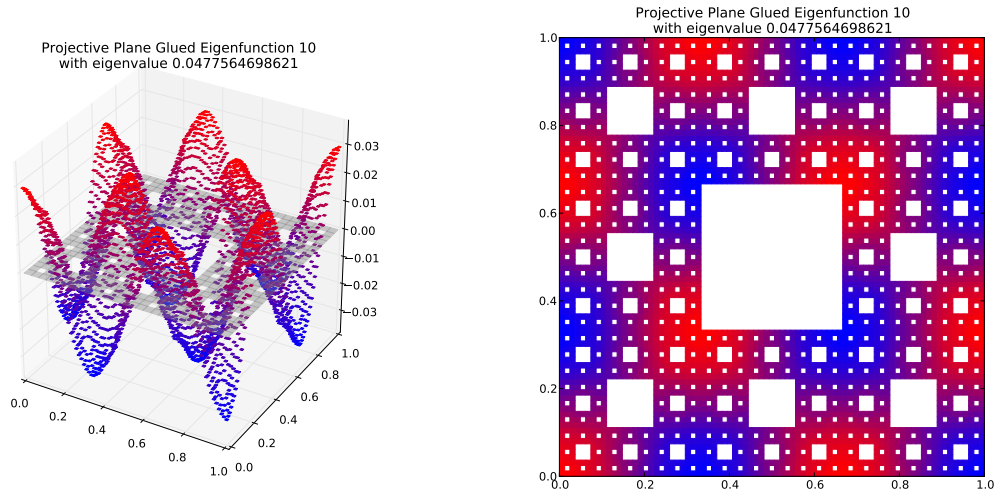
Eigenfunction 8 with eigenvalue 0.0403709170848



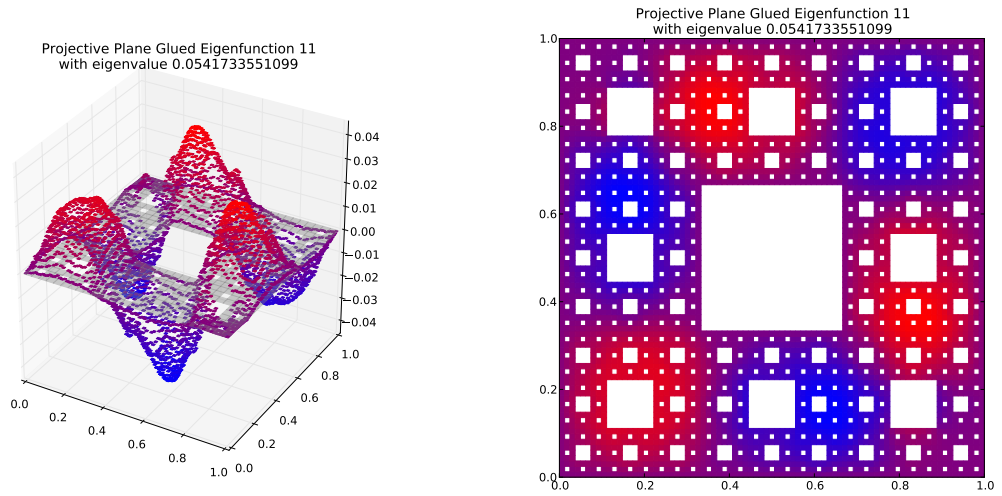
Eigenfunction 9 with eigenvalue 0.0466162837544



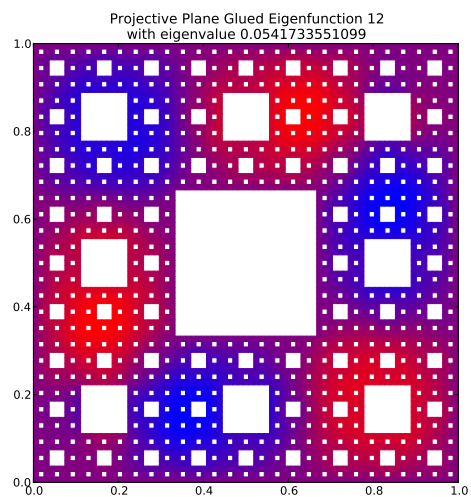
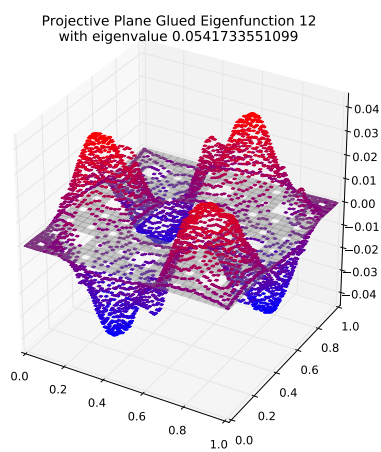
Eigenfunction 10 with eigenvalue 0.0477564698621



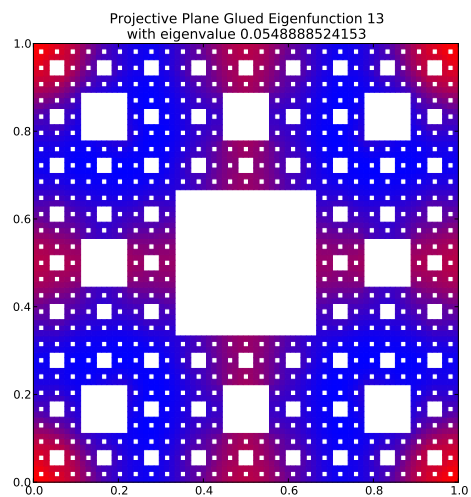
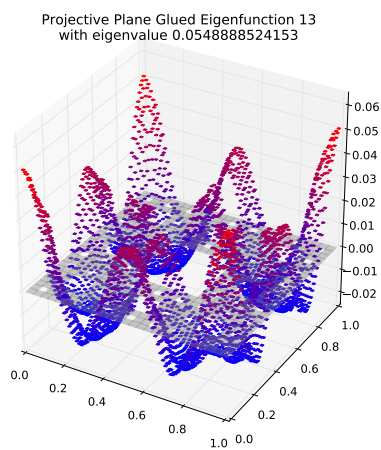
Eigenfunction 11 with eigenvalue 0.0541733551099



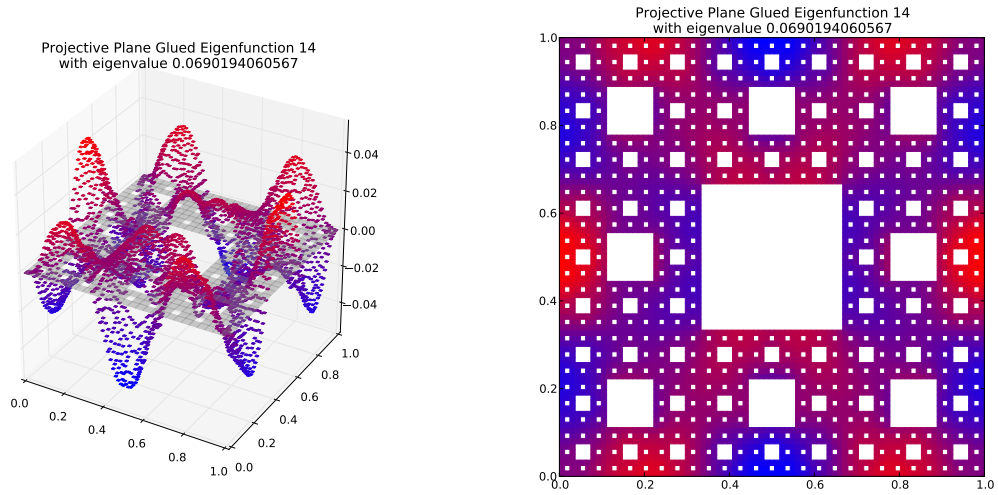
Eigenfunction 12 with eigenvalue 0.054173351099



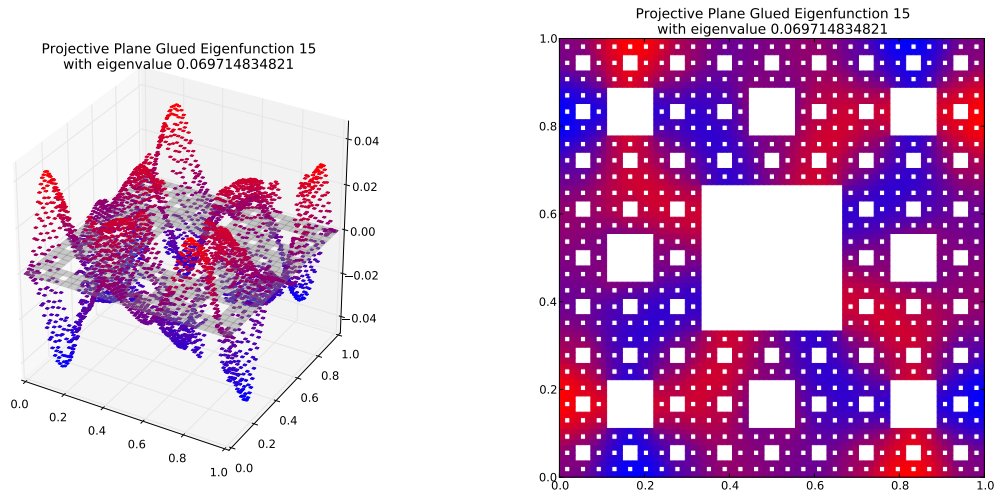
Eigenfunction 13 with eigenvalue 0.0548888524153



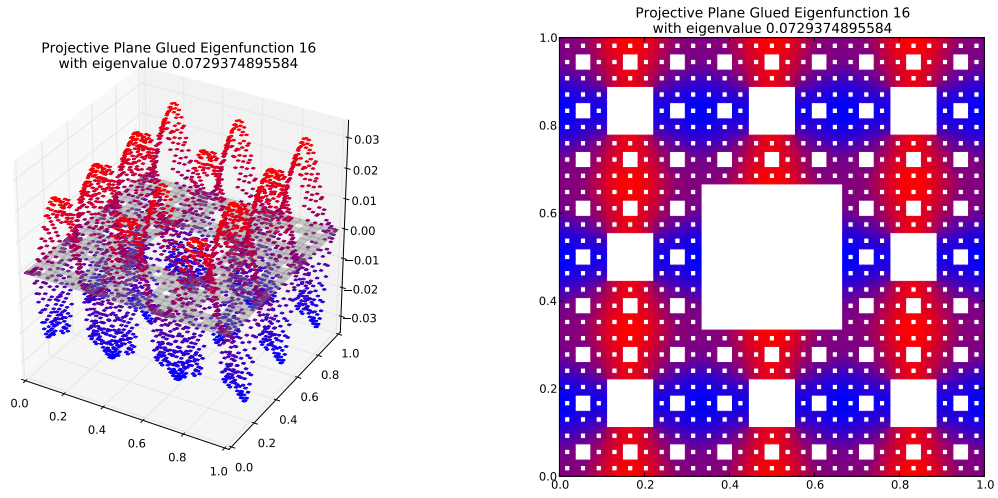
Eigenfunction 14 with eigenvalue 0.0690194060567



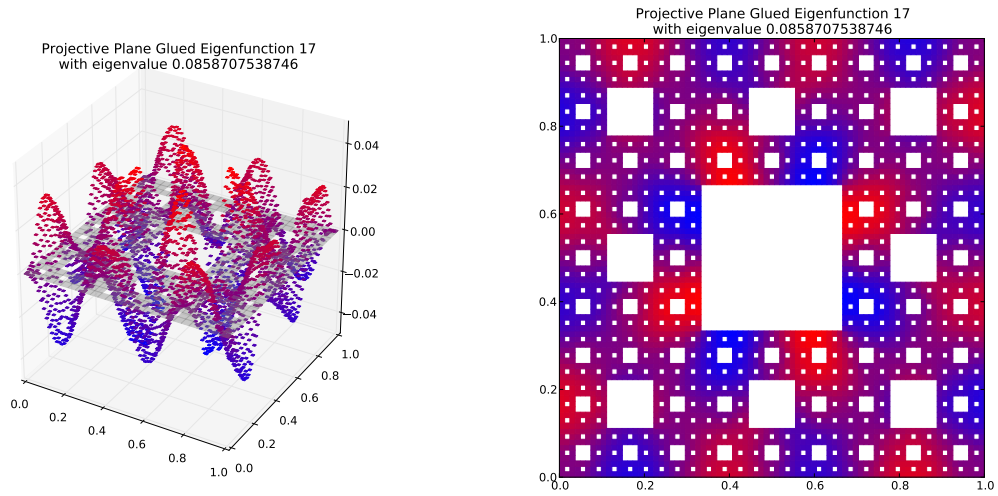
Eigenfunction 15 with eigenvalue 0.069714834821



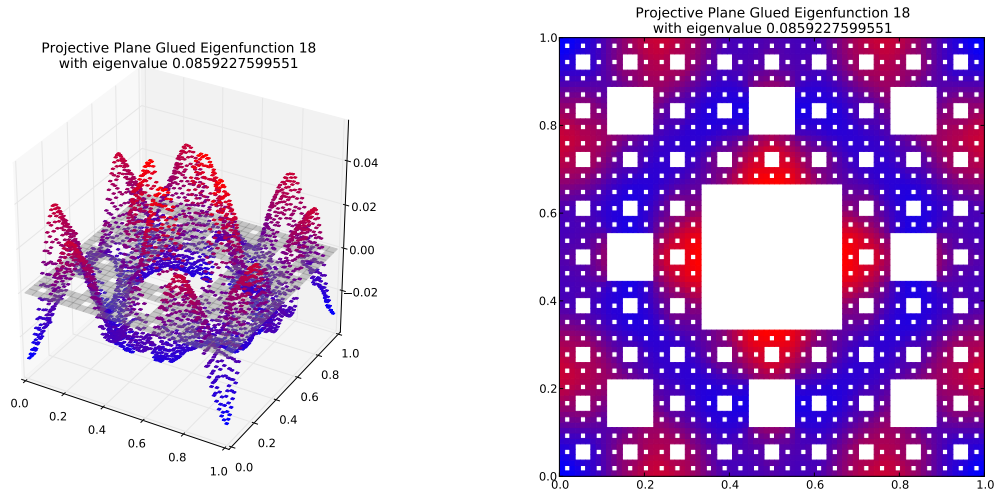
Eigenfunction 16 with eigenvalue 0.0729374895584



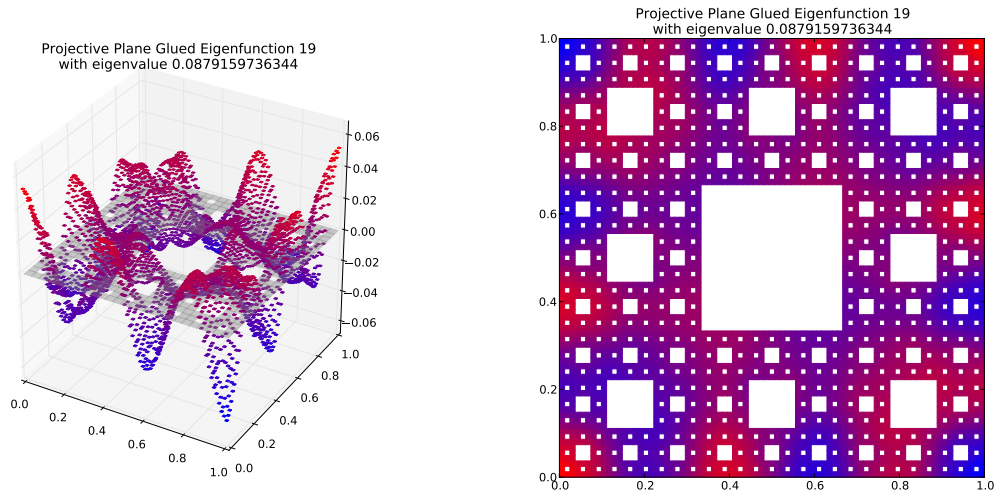
Eigenfunction 17 with eigenvalue 0.0858707538746



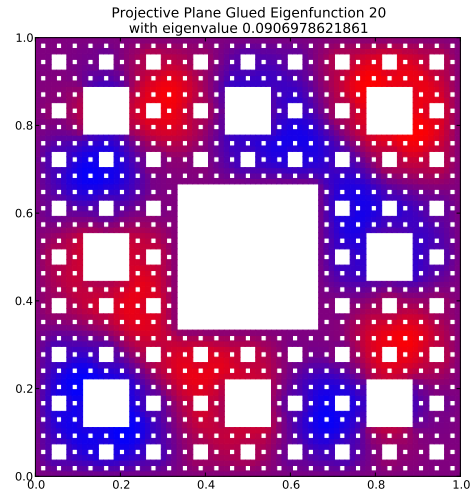
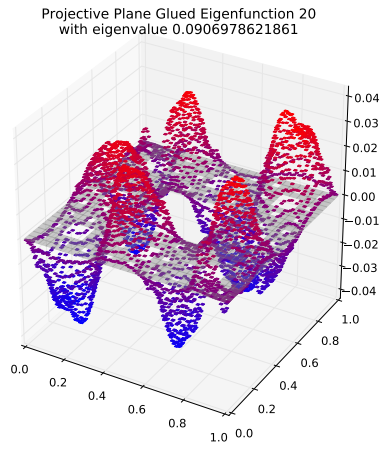
Eigenfunction 18 with eigenvalue 0.0859227599551



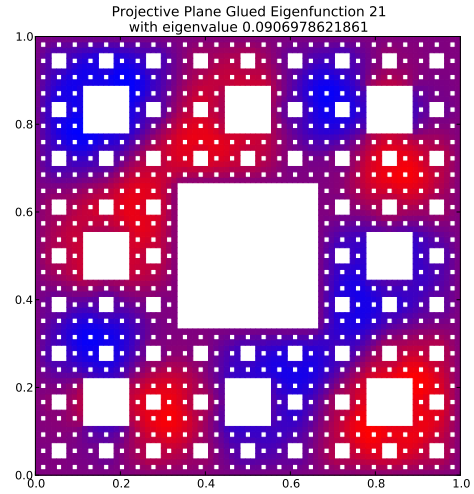
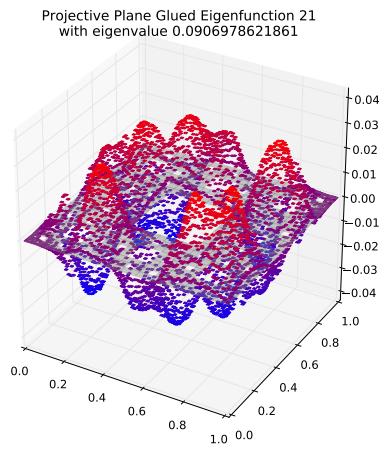
Eigenfunction 19 with eigenvalue 0.0879159736344



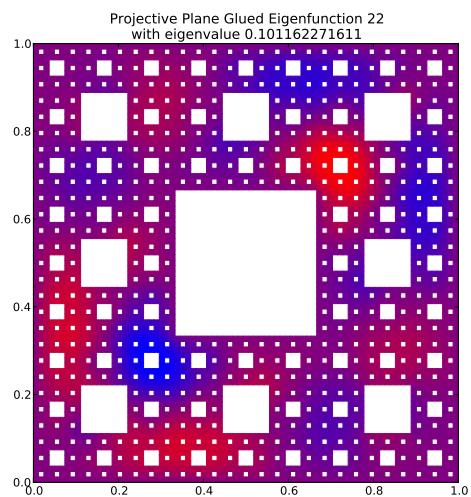
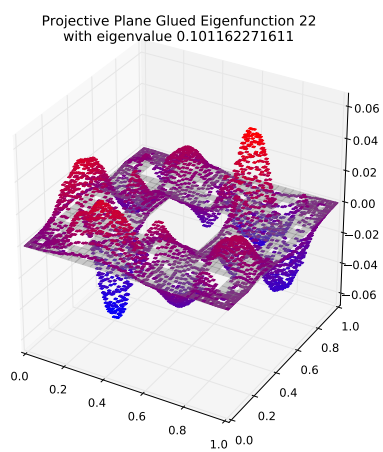
Eigenfunction 20 with eigenvalue 0.0906978621861



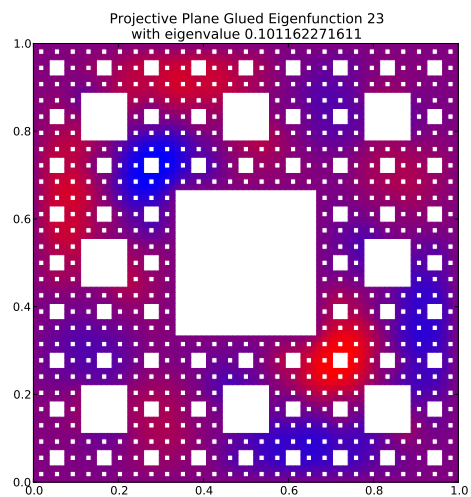
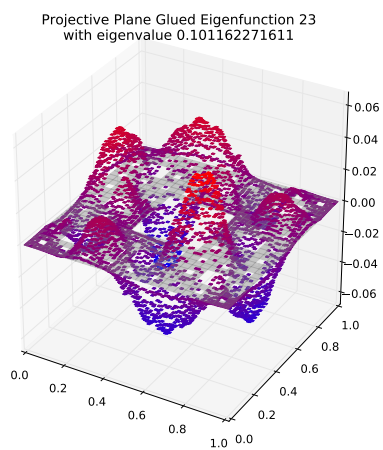
Eigenfunction 21 with eigenvalue 0.0906978621861



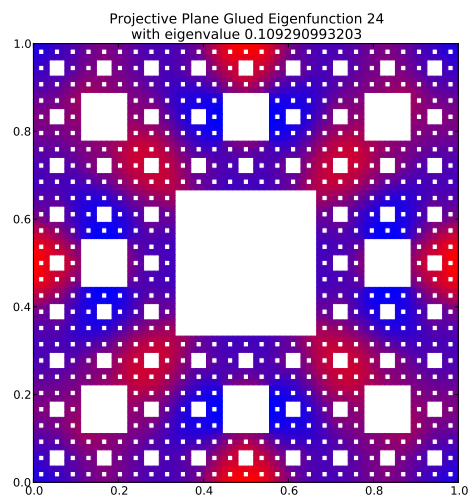
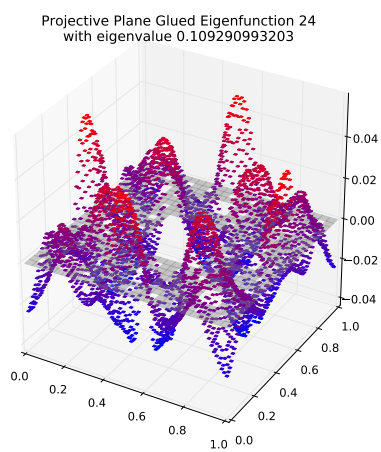
### Eigenfunction 22 with eigenvalue 0.101162271611



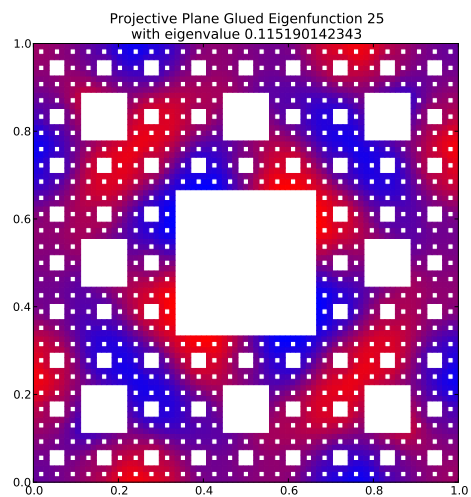
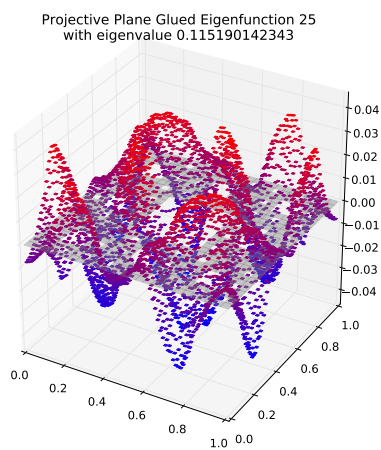
### Eigenfunction 23 with eigenvalue 0.101162271611



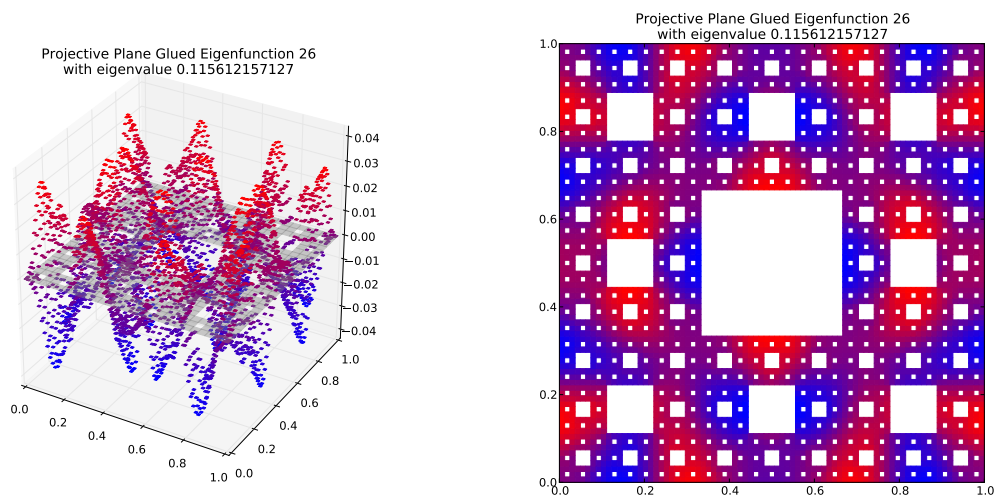
Eigenfunction 24 with eigenvalue 0.109290993203



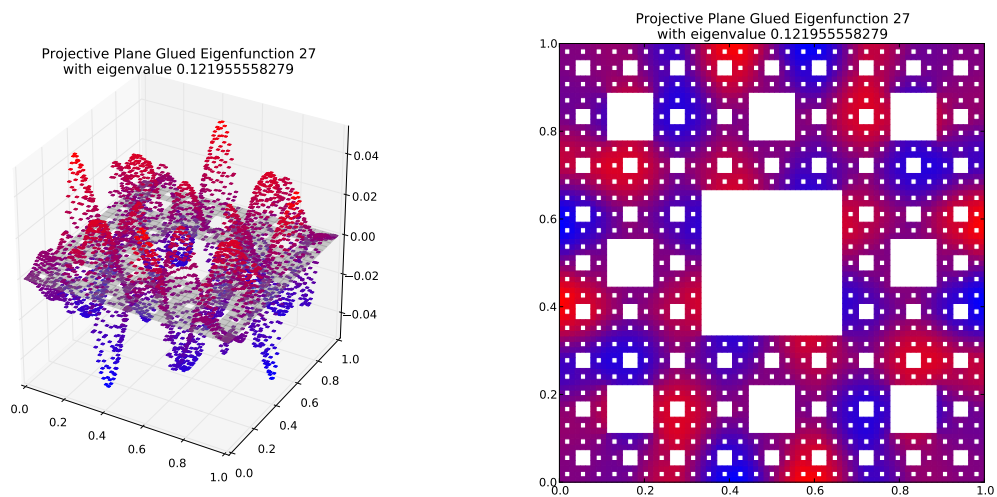
Eigenfunction 25 with eigenvalue 0.115190142343



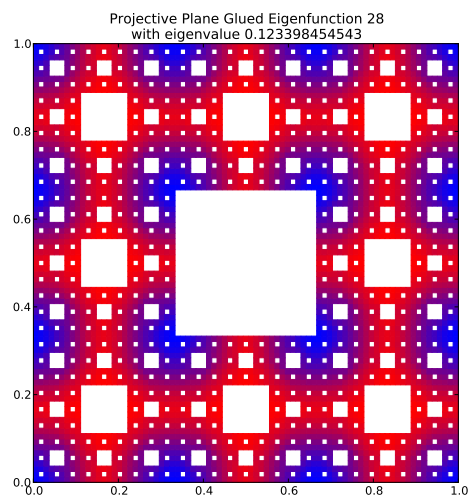
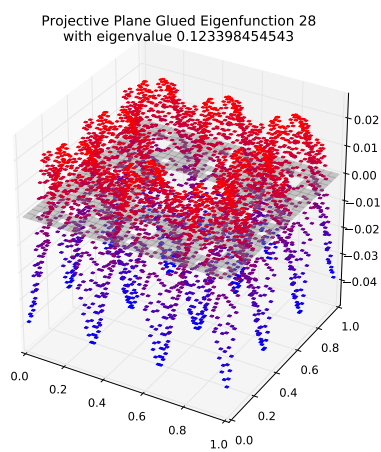
Eigenfunction 26 with eigenvalue 0.115612157127



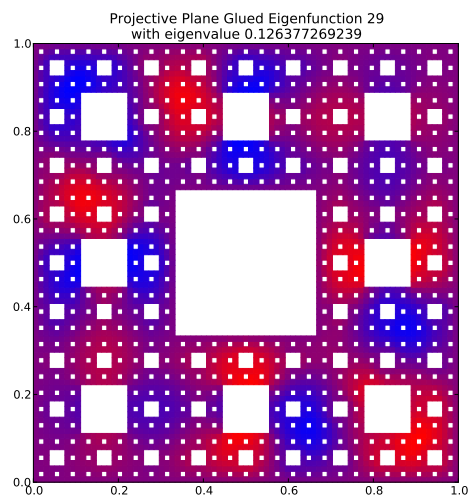
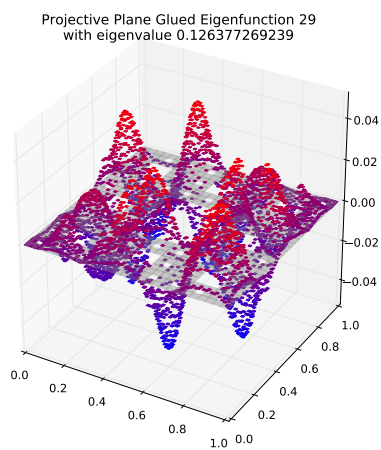
Eigenfunction 27 with eigenvalue 0.12195558279



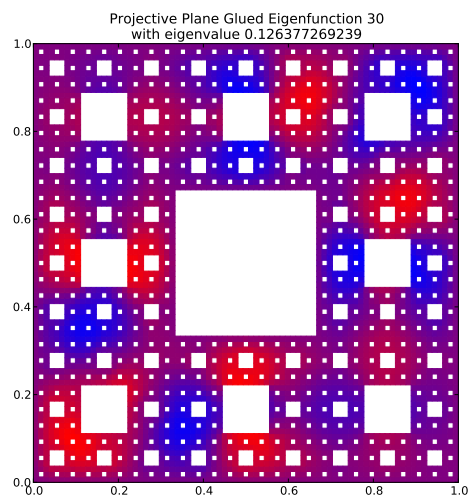
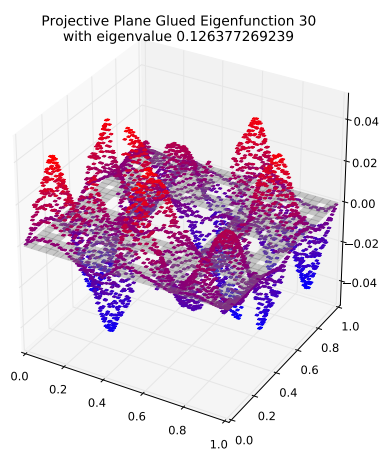
Eigenfunction 28 with eigenvalue 0.123398454543



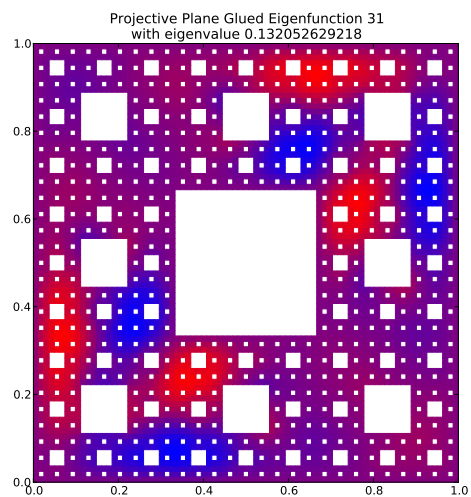
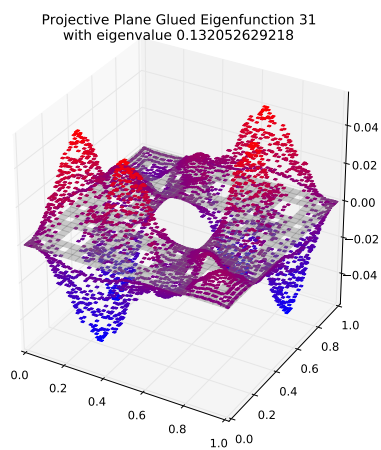
Eigenfunction 29 with eigenvalue 0.126377269239



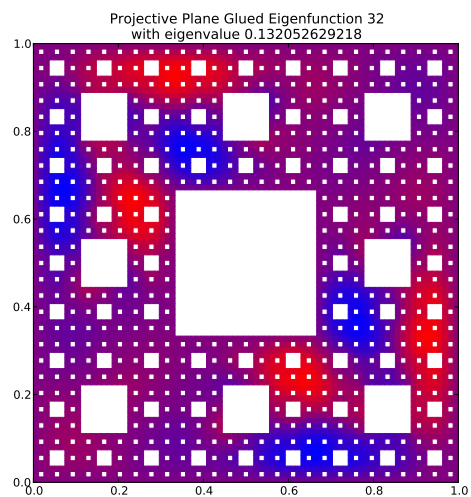
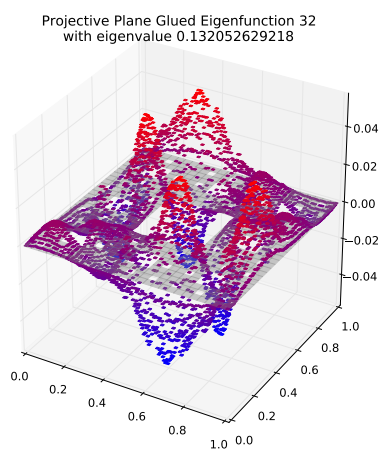
Eigenfunction 30 with eigenvalue 0.126377269239



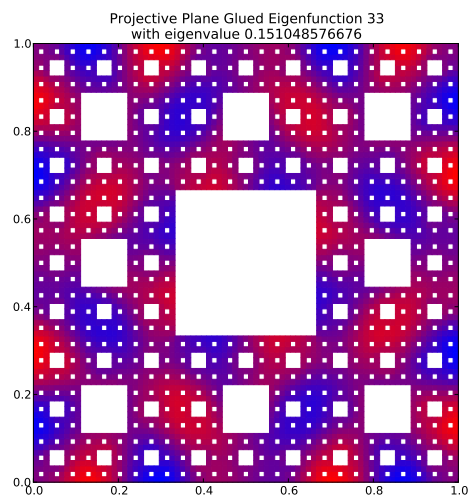
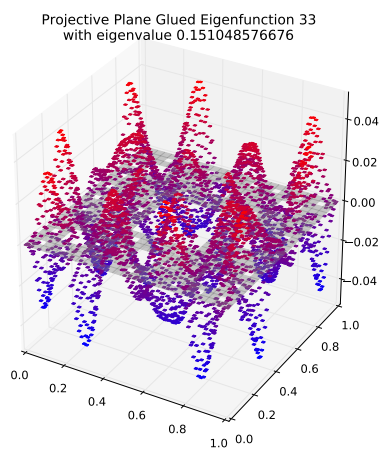
Eigenfunction 31 with eigenvalue 0.132052629218



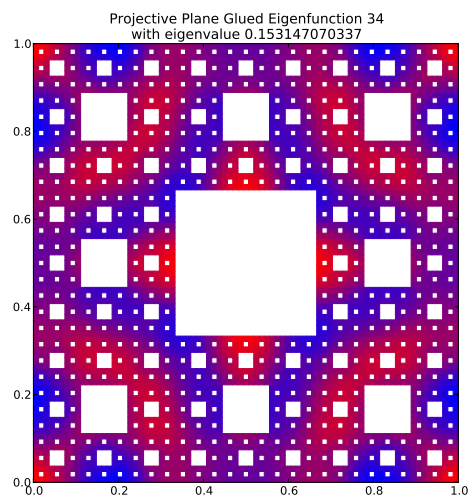
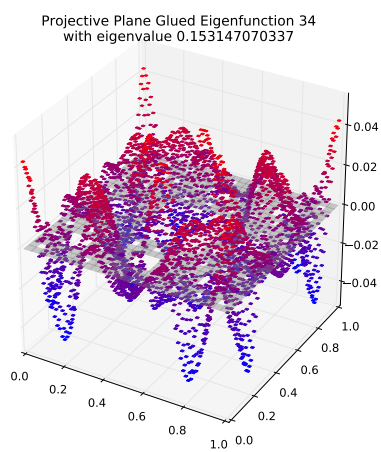
Eigenfunction 32 with eigenvalue 0.132052629218



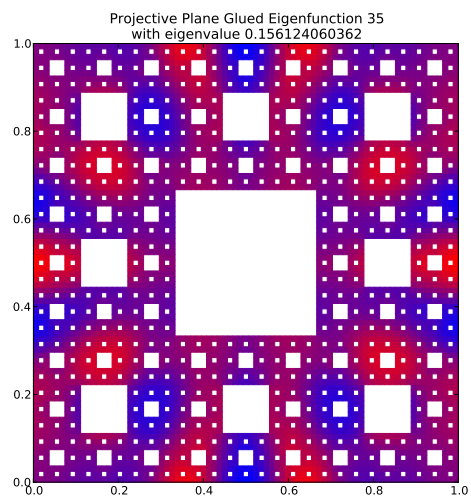
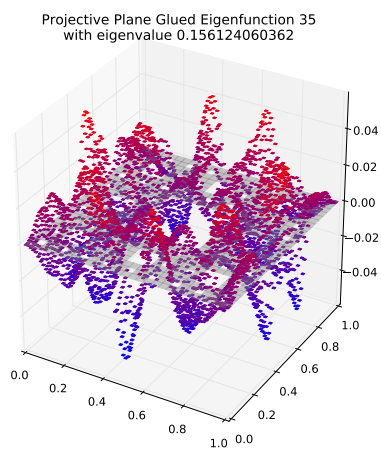
Eigenfunction 33 with eigenvalue 0.151048576676



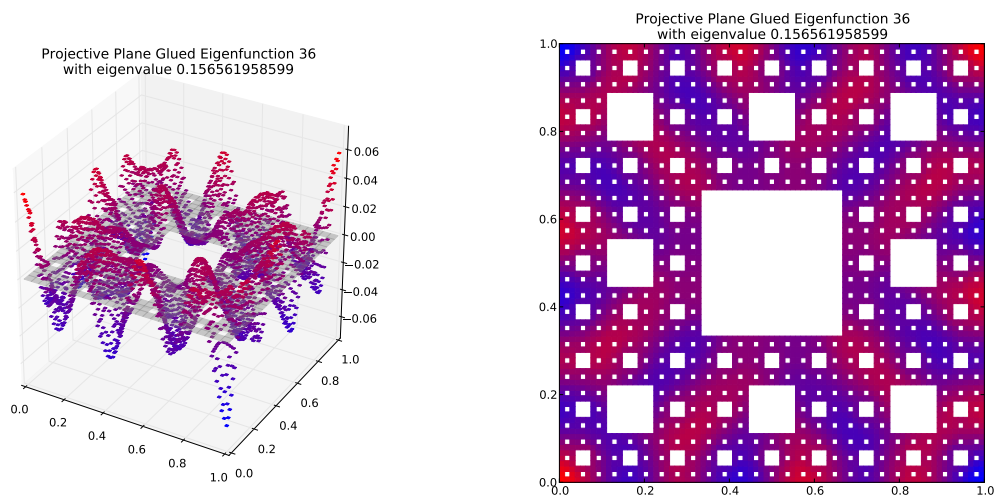
Eigenfunction 34 with eigenvalue 0.153147070337



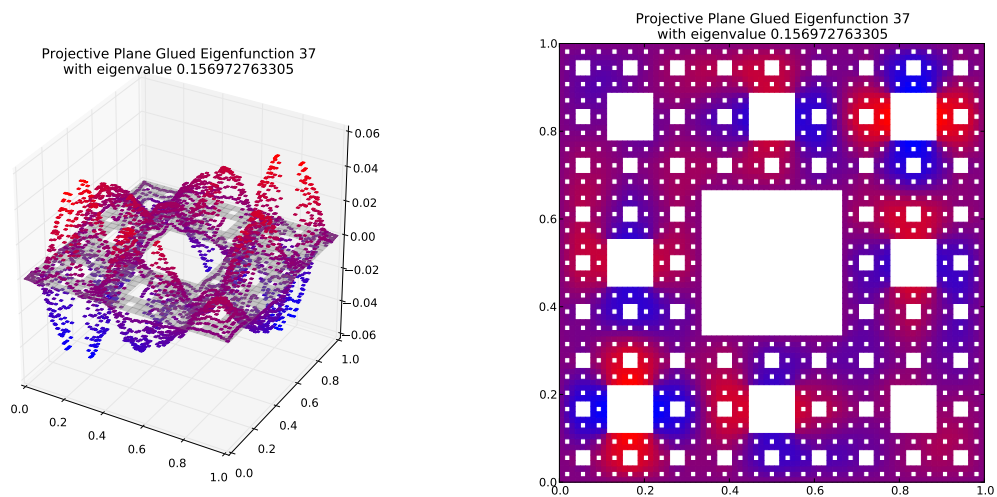
Eigenfunction 35 with eigenvalue 0.156124060362



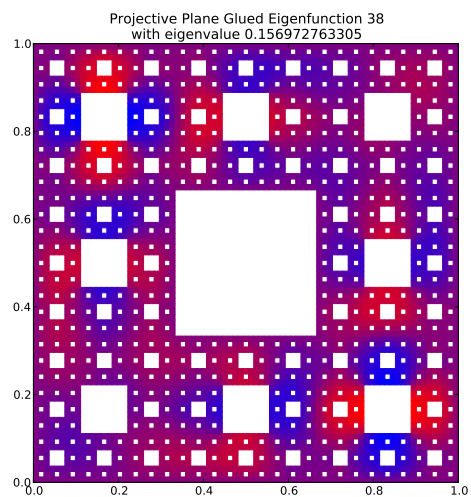
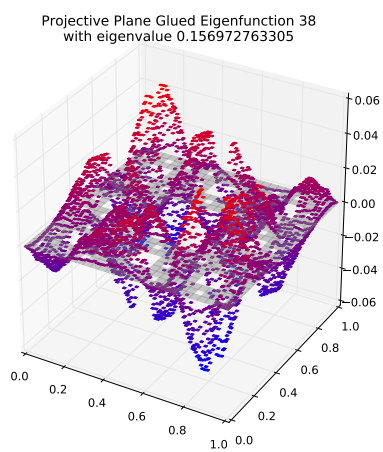
Eigenfunction 36 with eigenvalue 0.156561958599



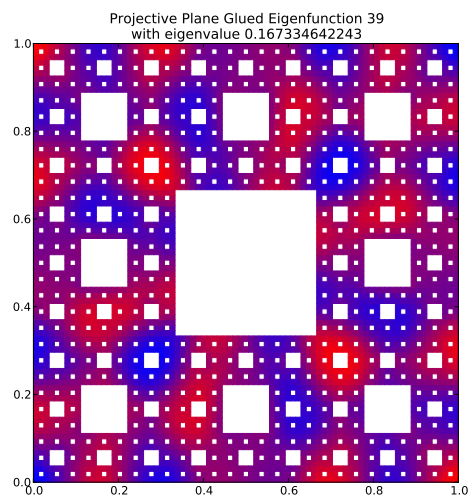
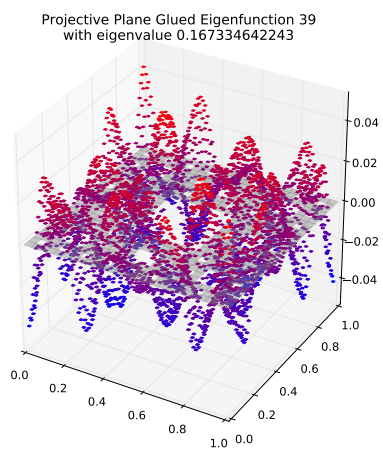
Eigenfunction 37 with eigenvalue 0.156972763305



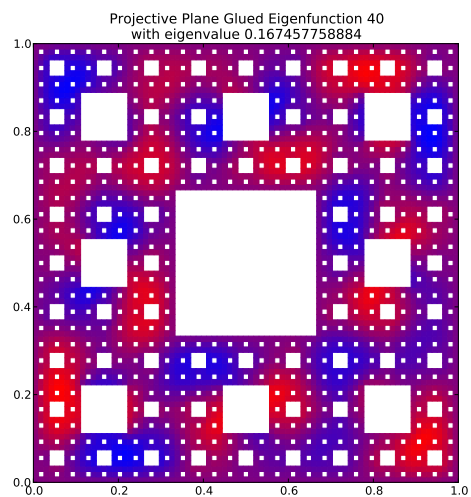
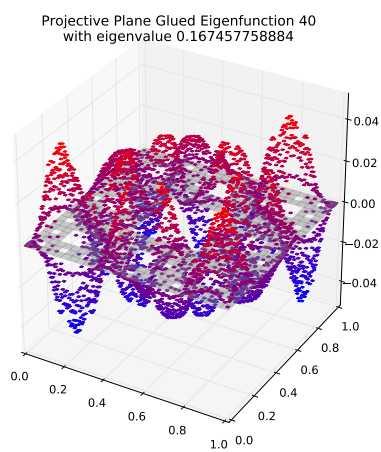
Eigenfunction 38 with eigenvalue 0.156972763305



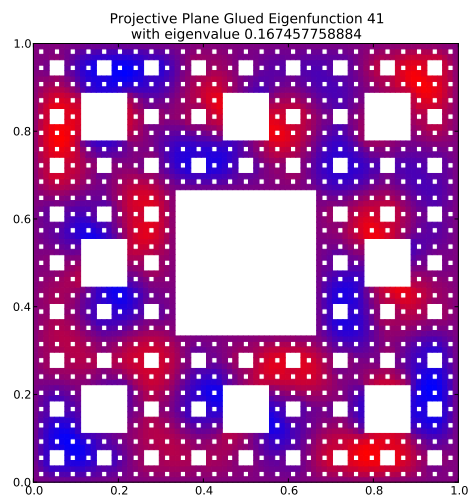
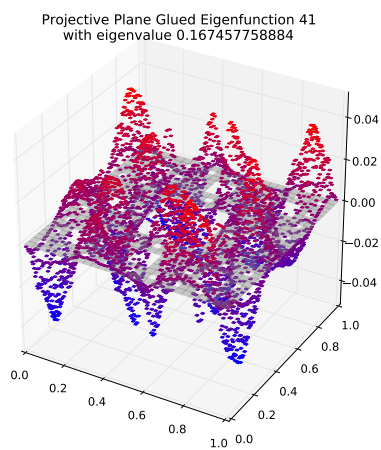
Eigenfunction 39 with eigenvalue 0.167334642243



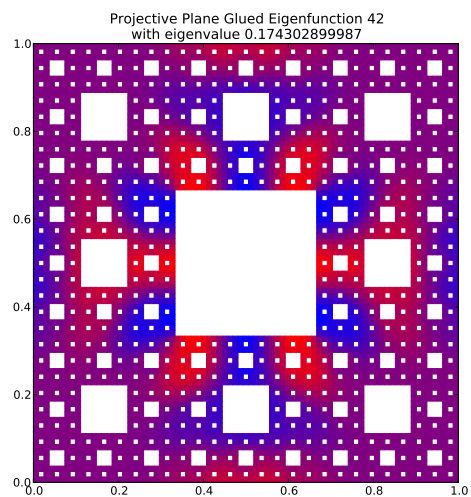
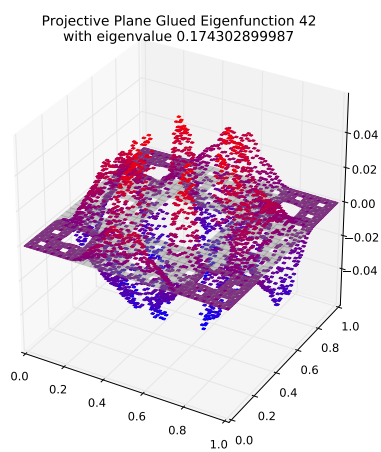
Eigenfunction 40 with eigenvalue 0.167457758884



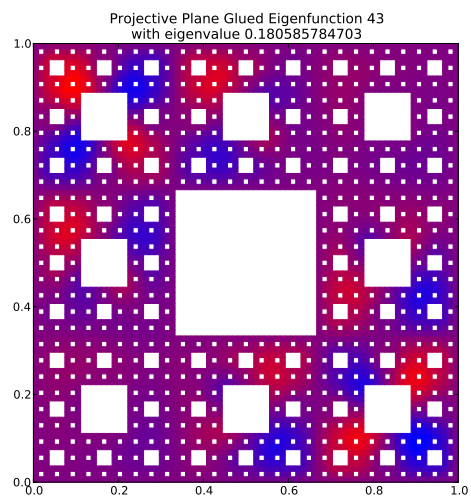
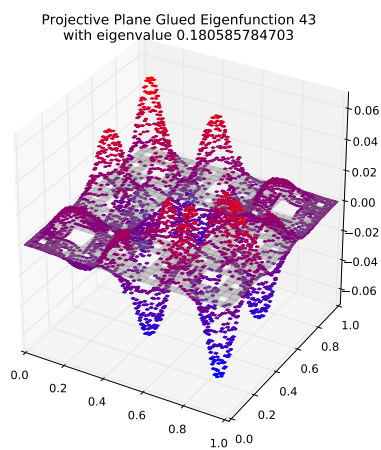
Eigenfunction 41 with eigenvalue 0.167457758884



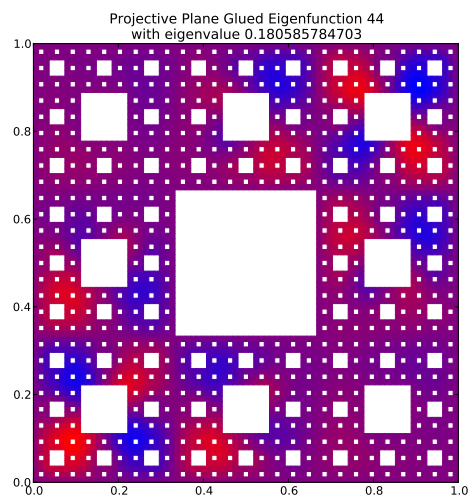
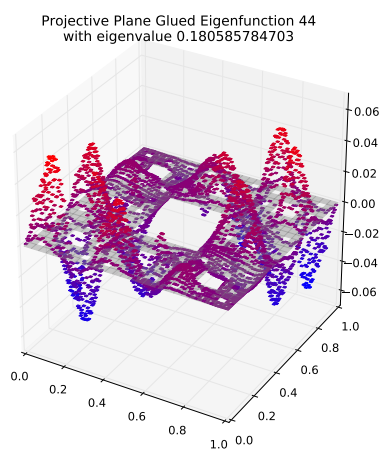
Eigenfunction 42 with eigenvalue 0.17430289987



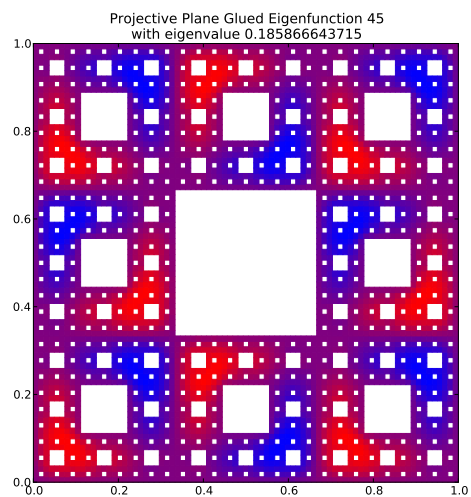
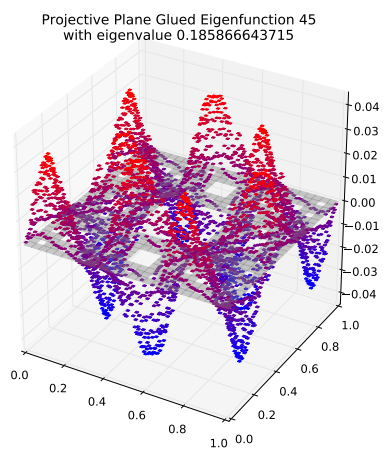
Eigenfunction 43 with eigenvalue 0.180585784703



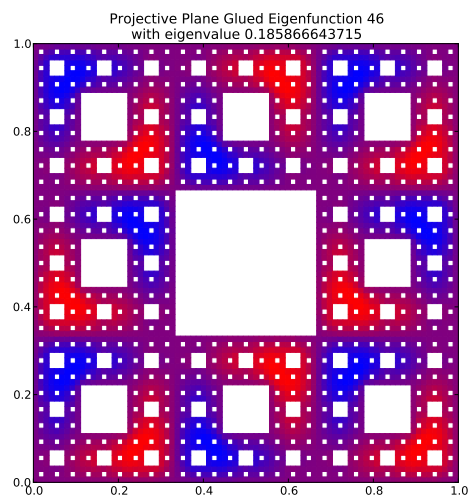
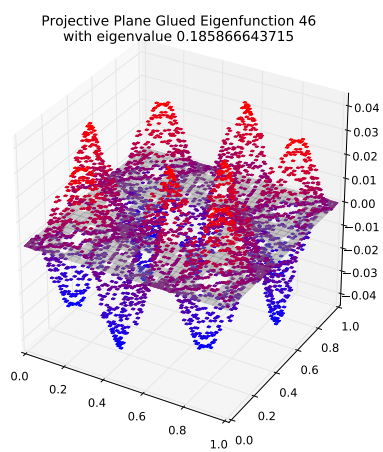
Eigenfunction 44 with eigenvalue 0.180585784703



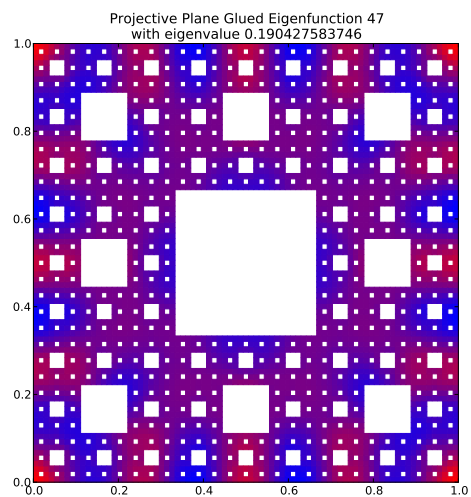
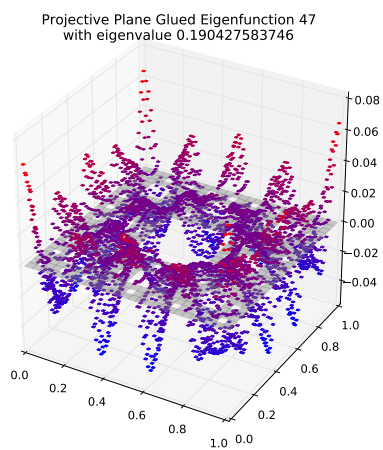
Eigenfunction 45 with eigenvalue 0.185866643715



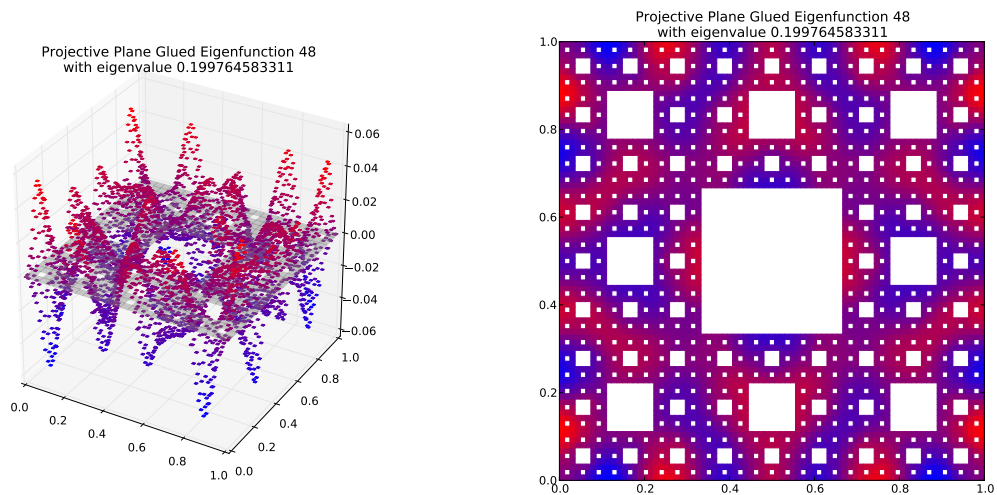
Eigenfunction 46 with eigenvalue 0.185866643715



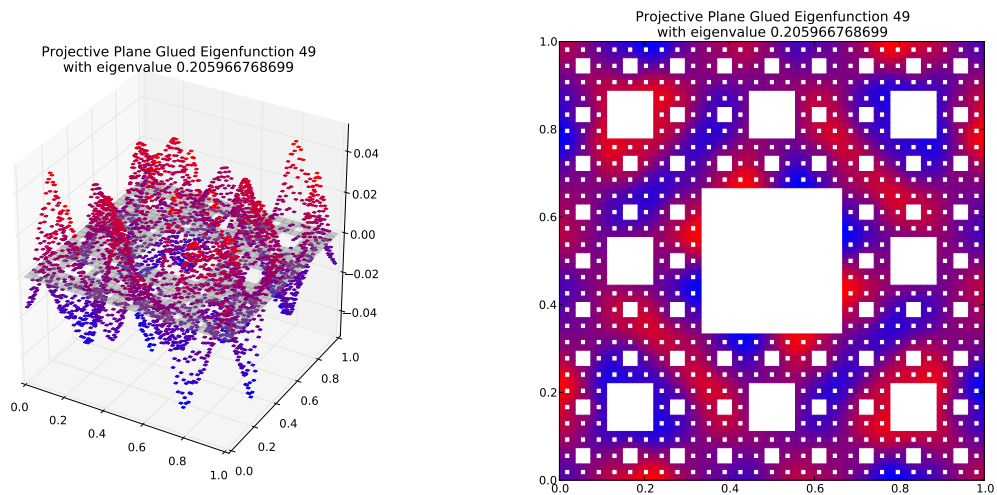
Eigenfunction 47 with eigenvalue 0.190427583746



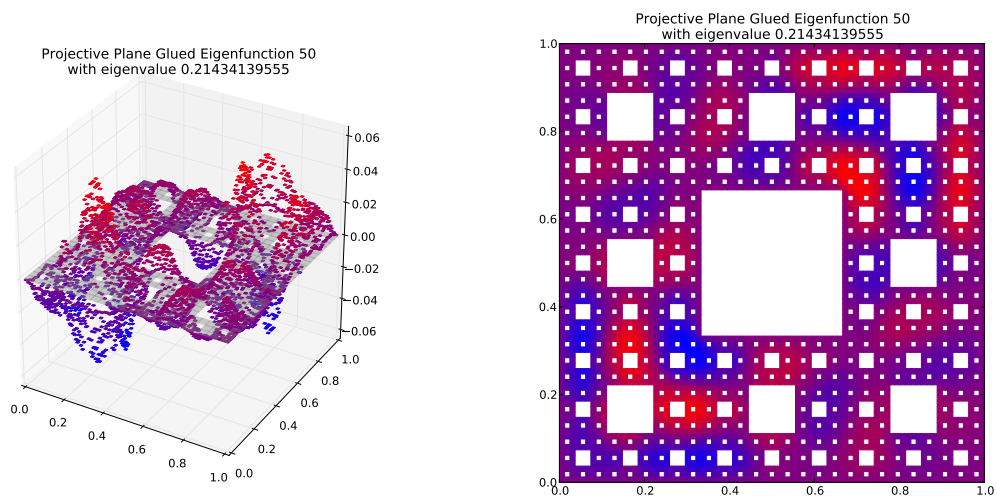
Eigenfunction 48 with eigenvalue 0.199764583311



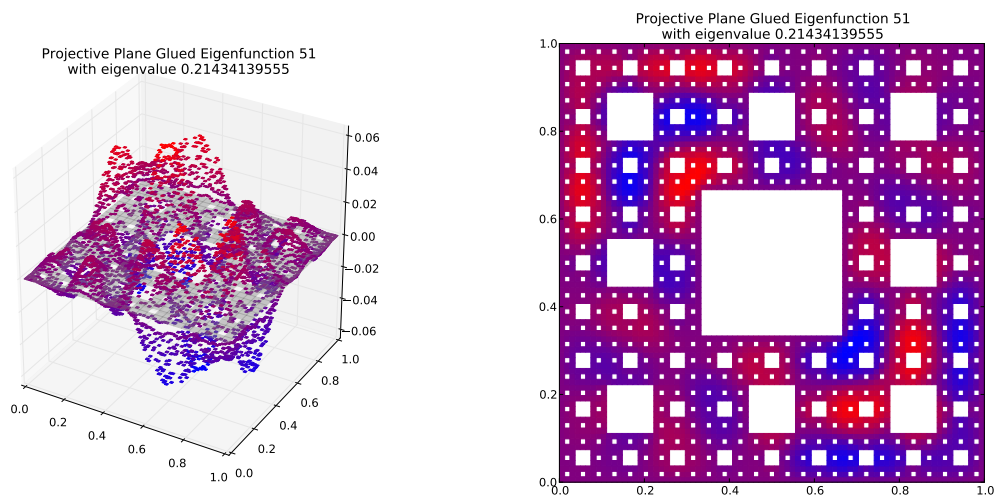
Eigenfunction 49 with eigenvalue 0.205966768699



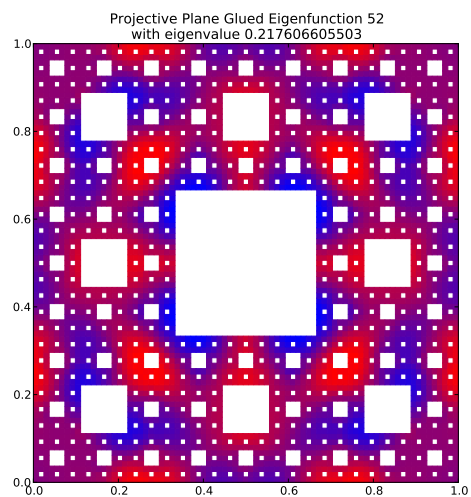
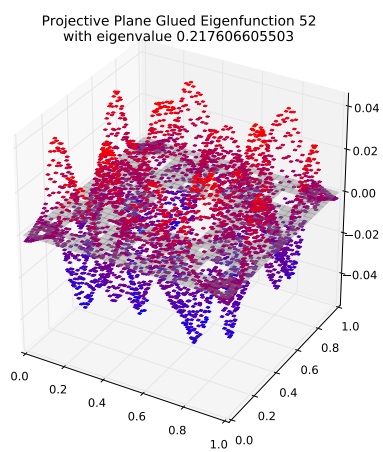
### Eigenfunction 50 with eigenvalue 0.21434139555



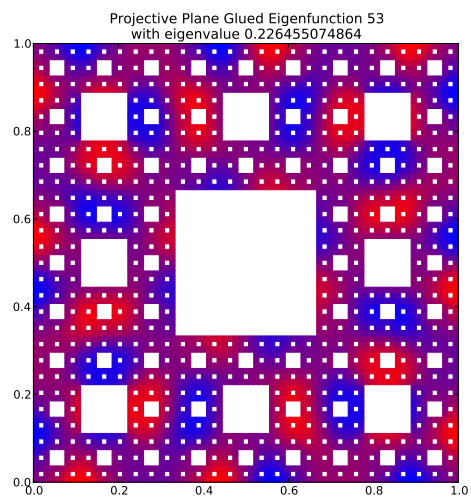
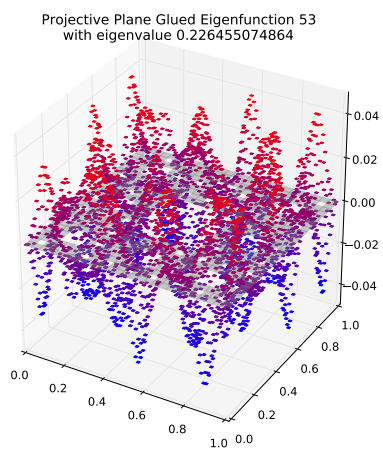
### Eigenfunction 51 with eigenvalue 0.21434139555



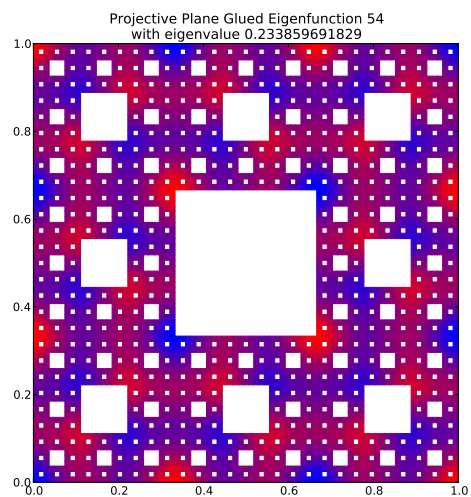
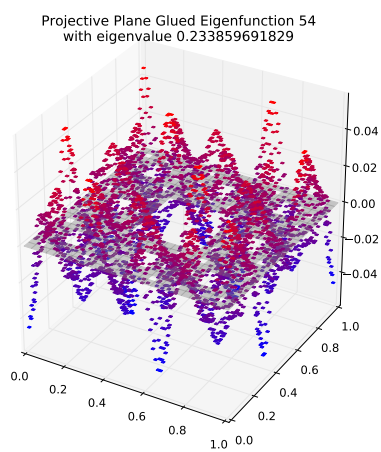
Eigenfunction 52 with eigenvalue 0.217606605503



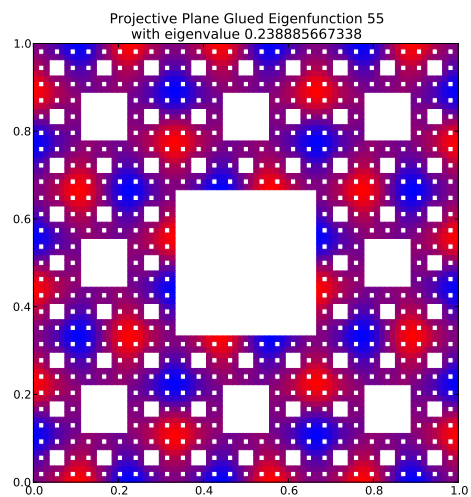
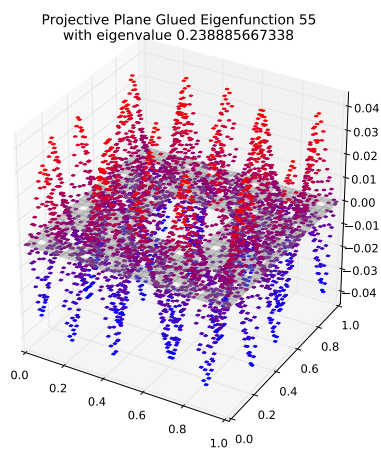
Eigenfunction 53 with eigenvalue 0.226455074864



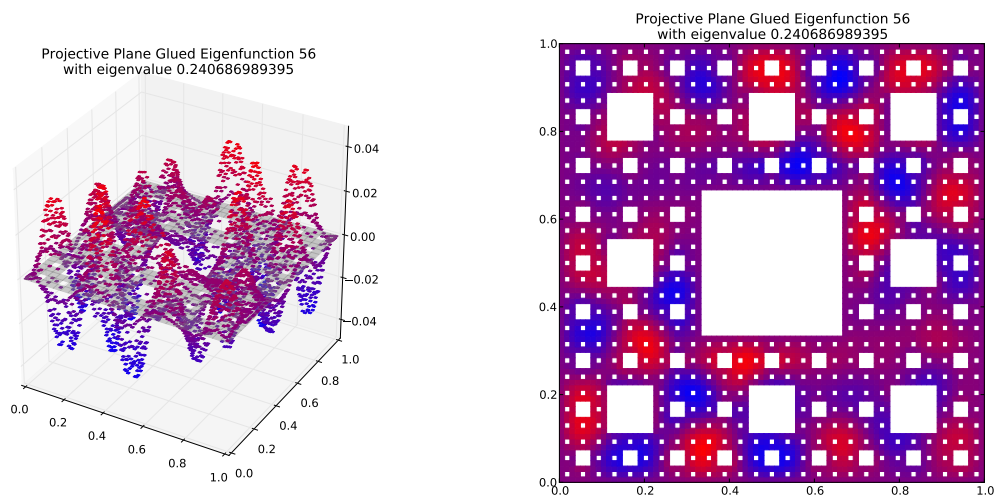
Eigenfunction 54 with eigenvalue 0.233859691829



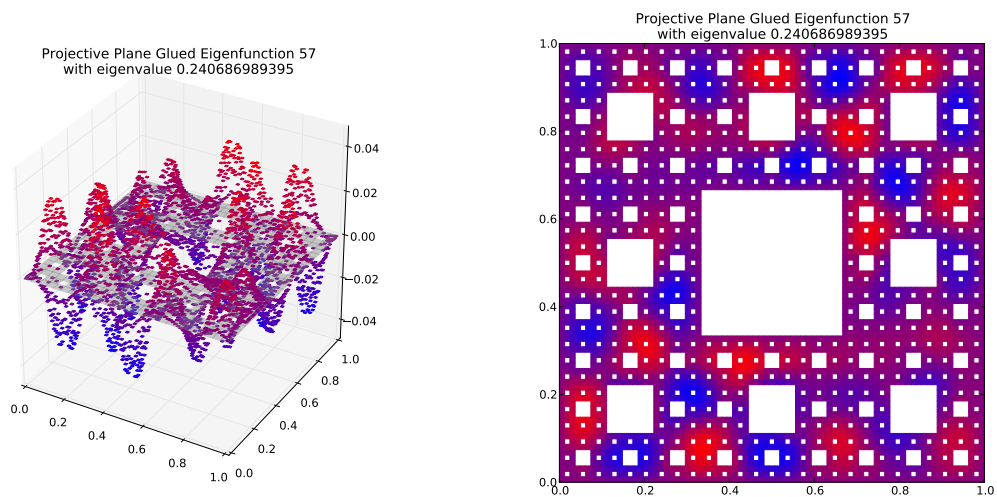
Eigenfunction 55 with eigenvalue 0.238885667338



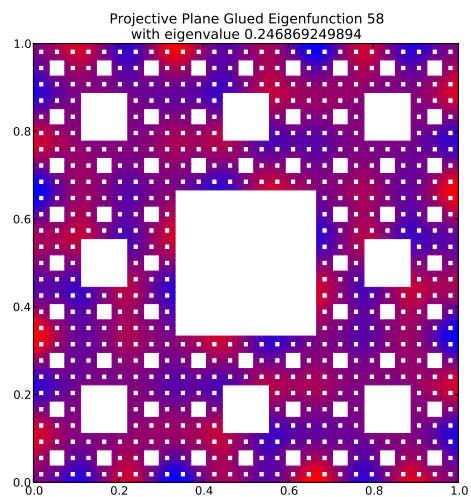
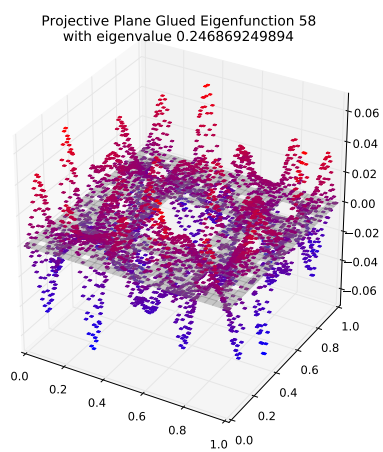
Eigenfunction 56 with eigenvalue 0.240686989395



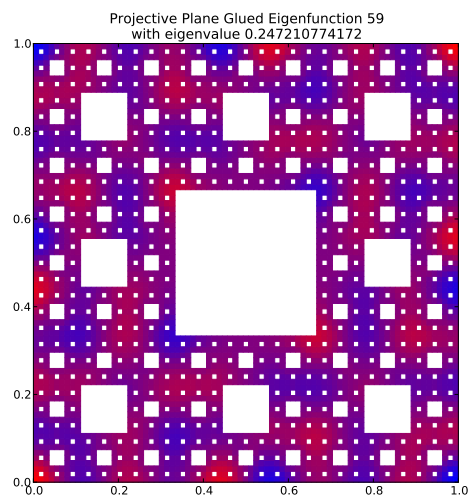
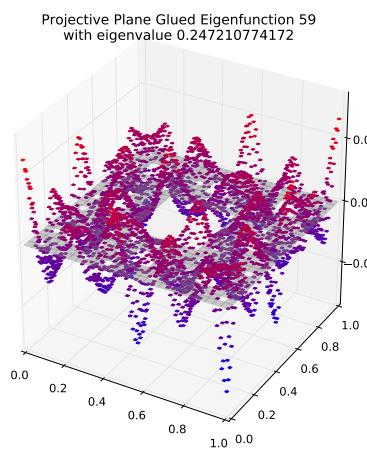
Eigenfunction 57 with eigenvalue 0.240686989395



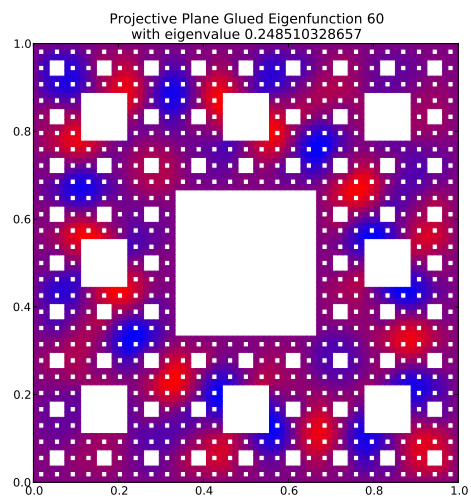
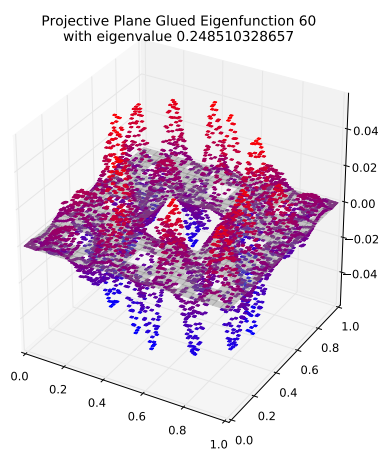
Eigenfunction 58 with eigenvalue 0.246869249894



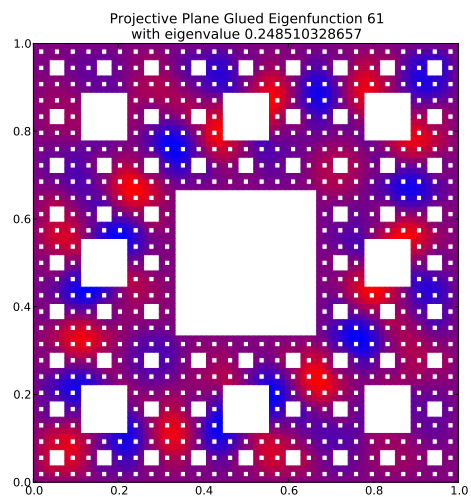
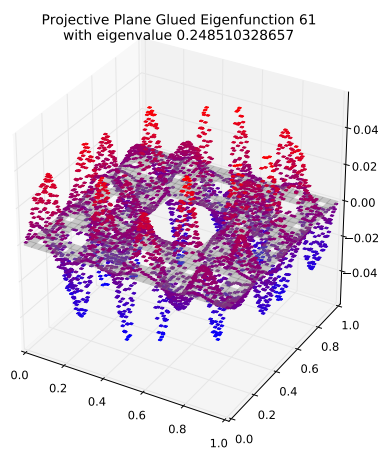
Eigenfunction 59 with eigenvalue 0.247210774172



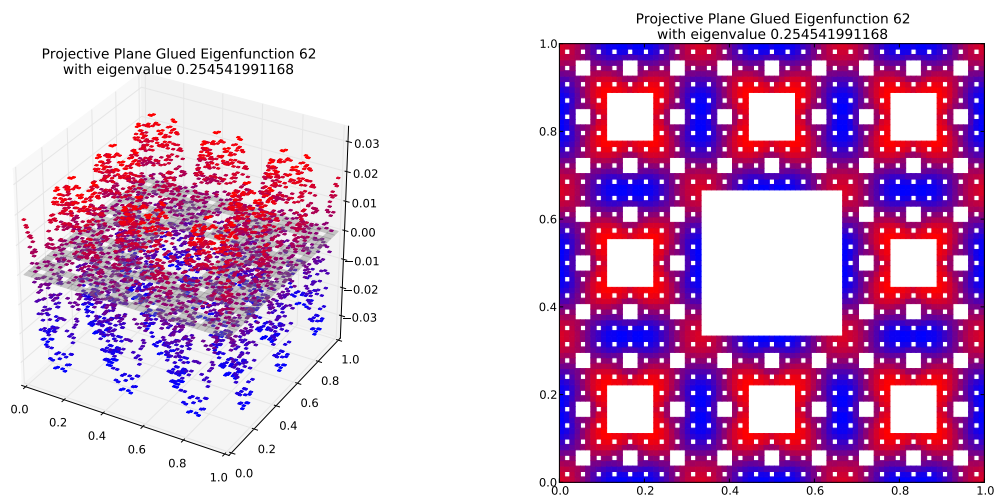
Eigenfunction 60 with eigenvalue 0.248510328657



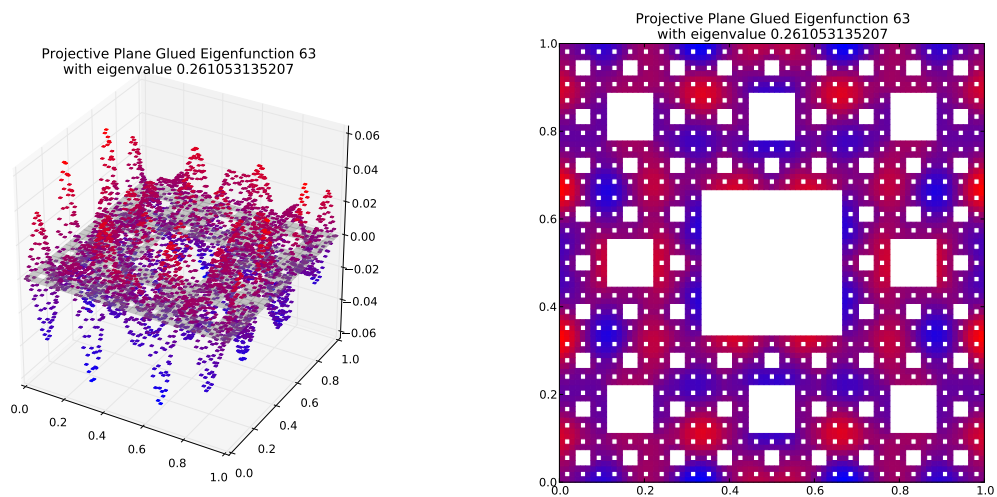
Eigenfunction 61 with eigenvalue 0.248510328657



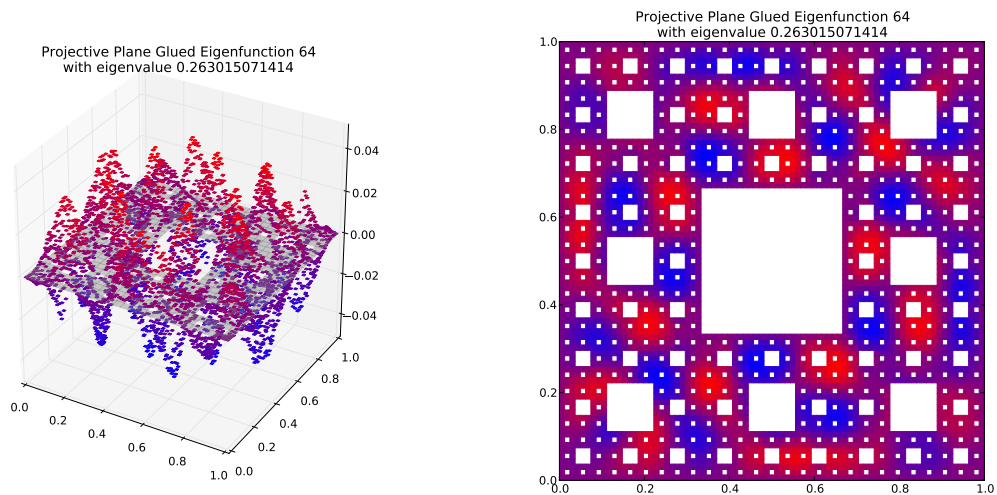
Eigenfunction 62 with eigenvalue 0.254541991168



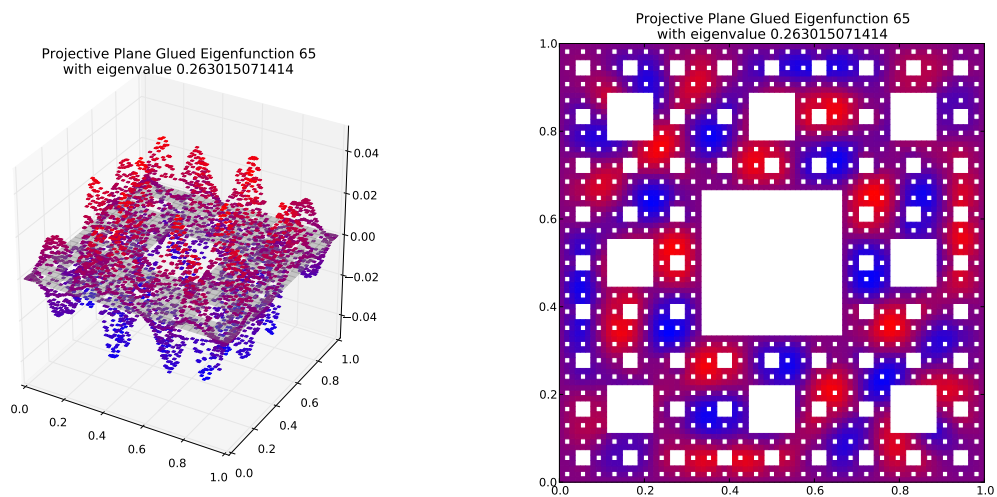
Eigenfunction 63 with eigenvalue 0.261053135207



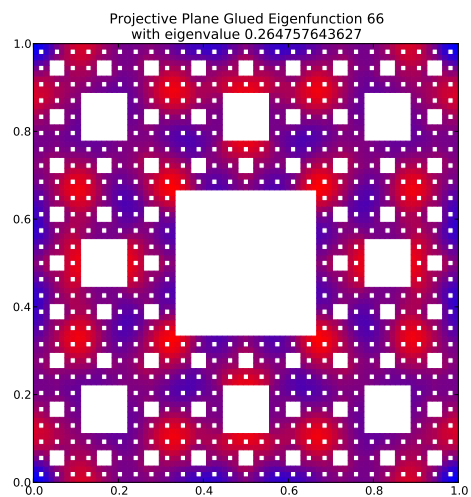
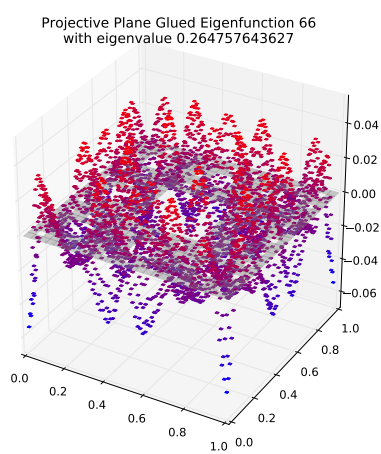
Eigenfunction 64 with eigenvalue 0.263015071414



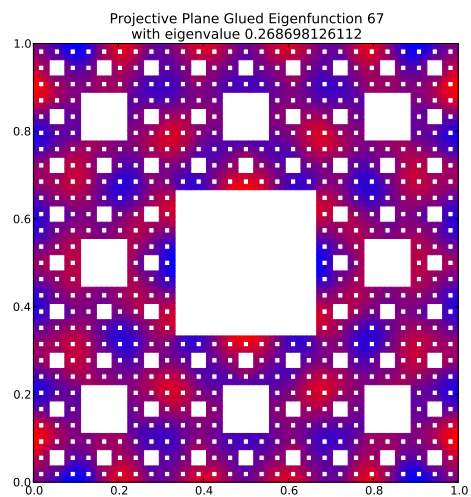
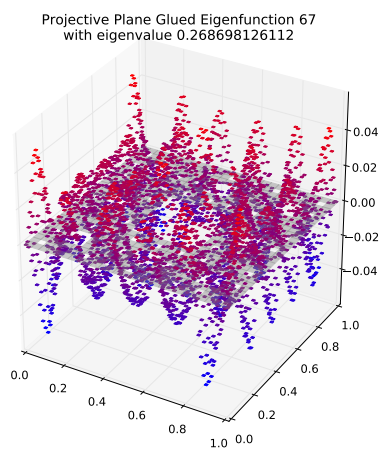
Eigenfunction 65 with eigenvalue 0.263015071414



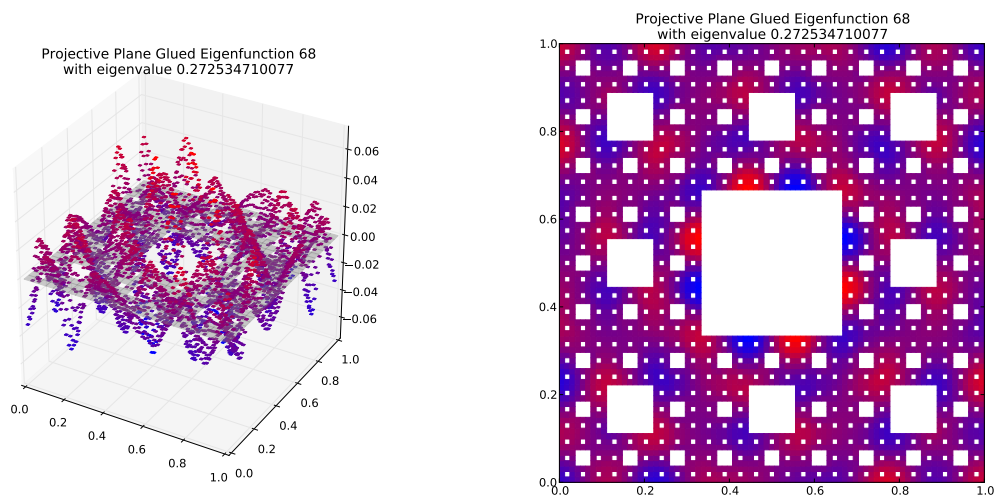
Eigenfunction 66 with eigenvalue 0.264757643627



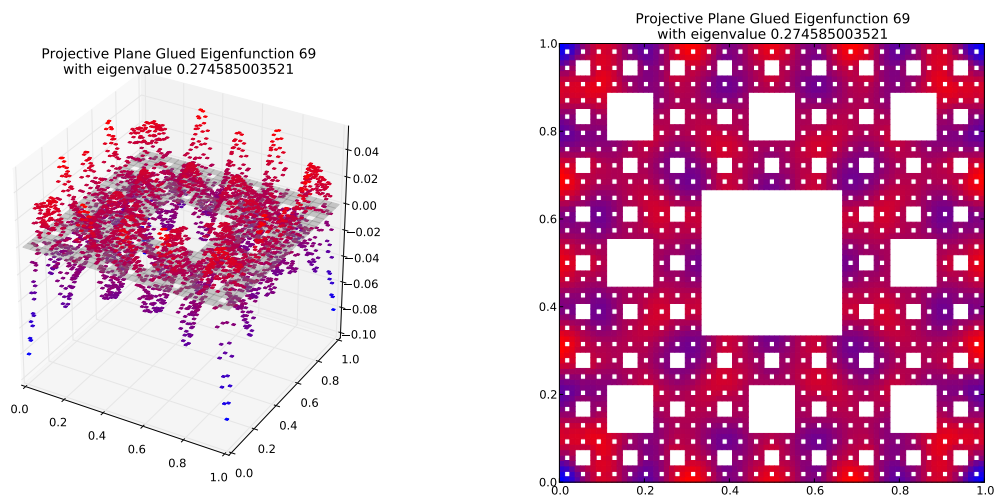
Eigenfunction 67 with eigenvalue 0.268698126112



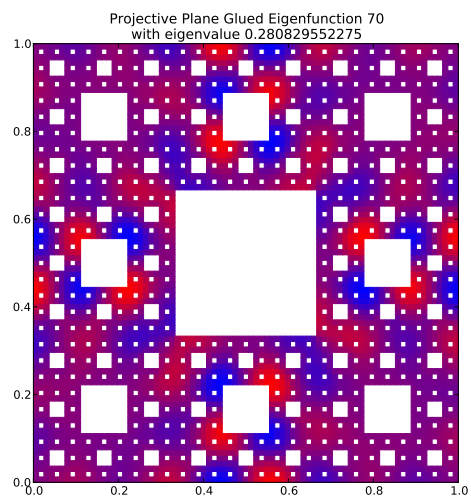
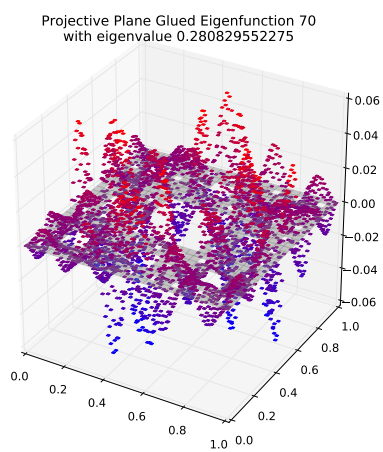
Eigenfunction 68 with eigenvalue 0.272534710077



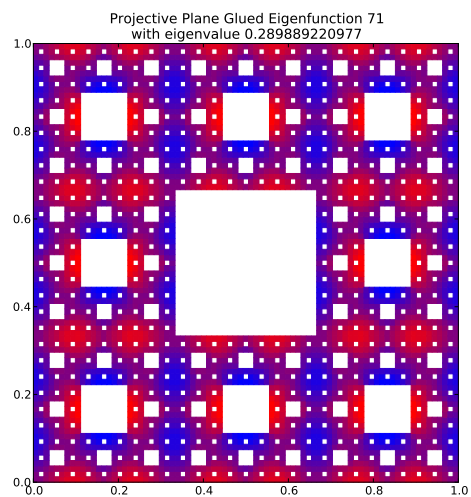
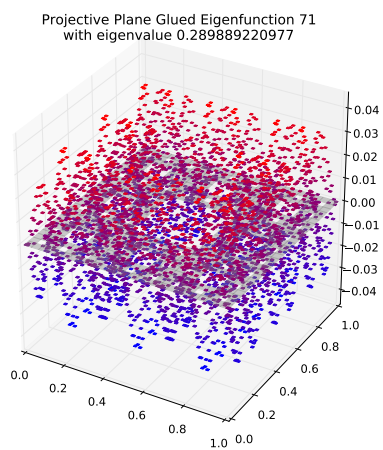
Eigenfunction 69 with eigenvalue 0.274585003521



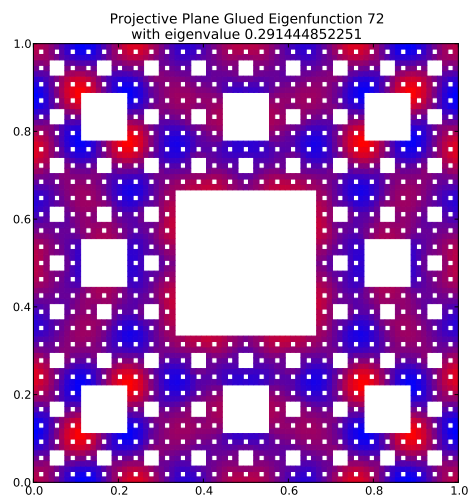
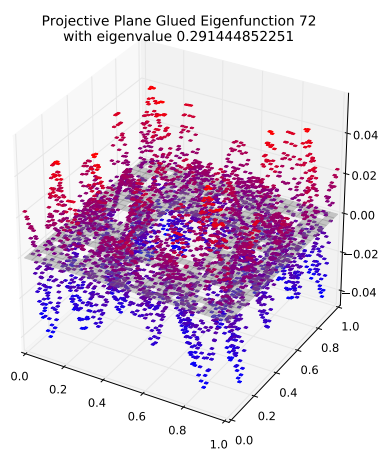
Eigenfunction 70 with eigenvalue 0.280829552275



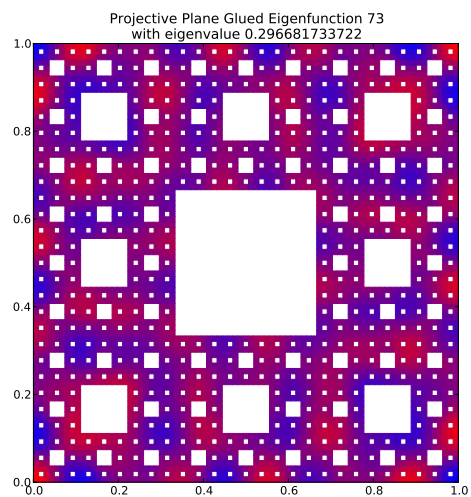
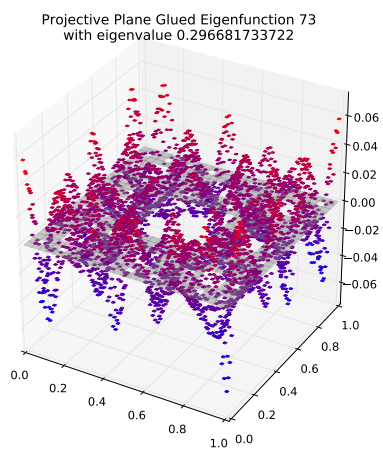
Eigenfunction 71 with eigenvalue 0.289889220977



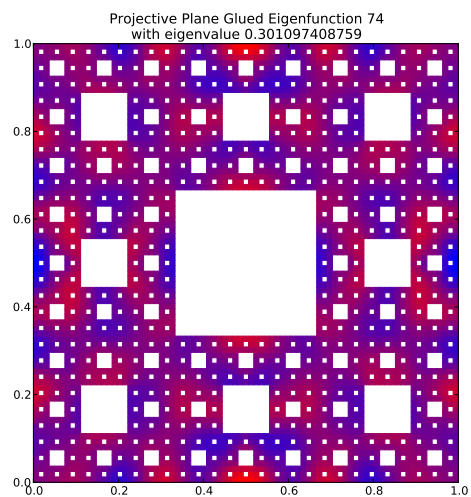
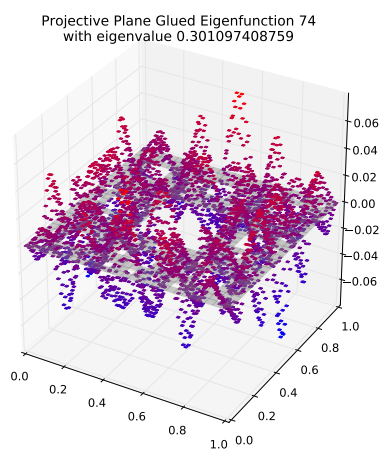
Eigenfunction 72 with eigenvalue 0.291444852251



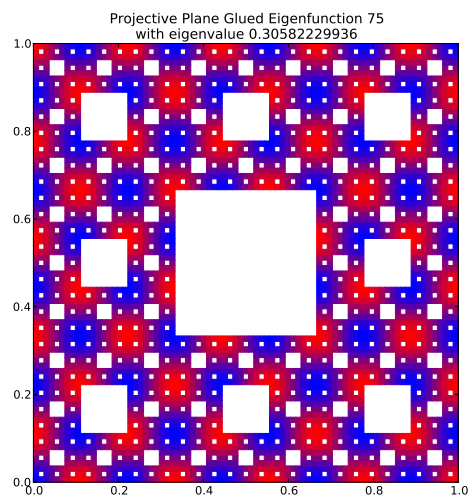
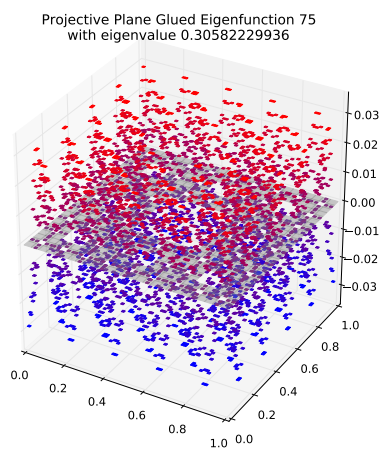
Eigenfunction 73 with eigenvalue 0.296681733722



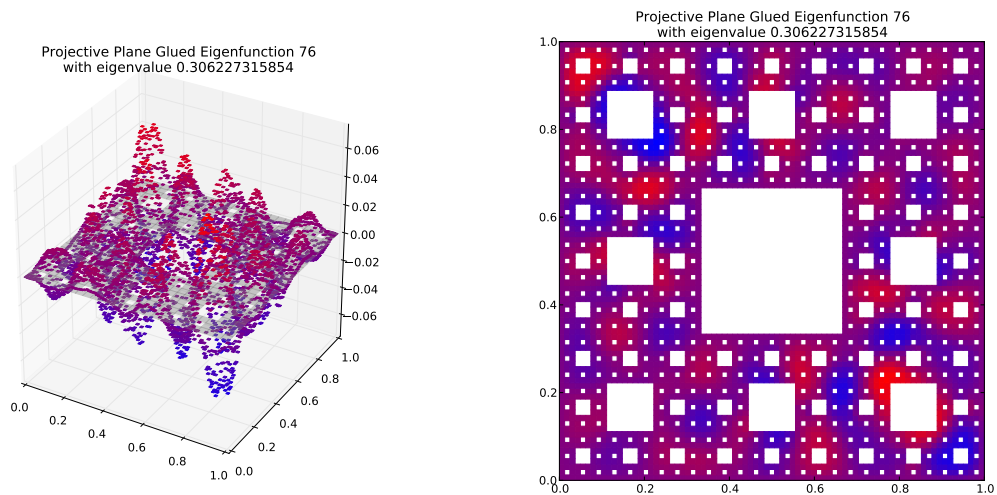
Eigenfunction 74 with eigenvalue 0.301097408759



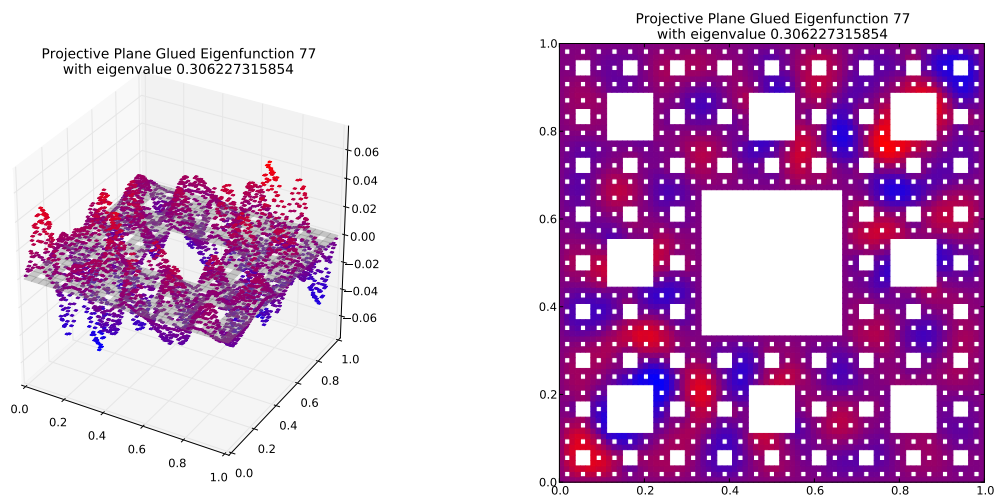
Eigenfunction 75 with eigenvalue 0.30582229936



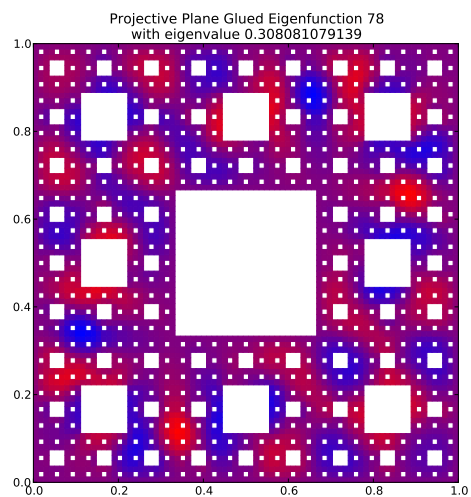
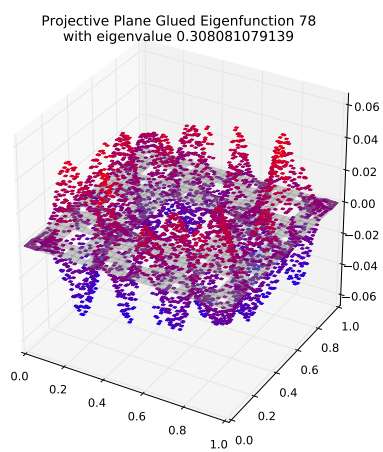
Eigenfunction 76 with eigenvalue 0.306227315854



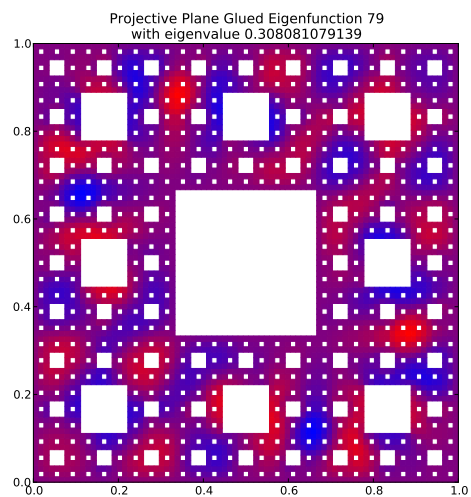
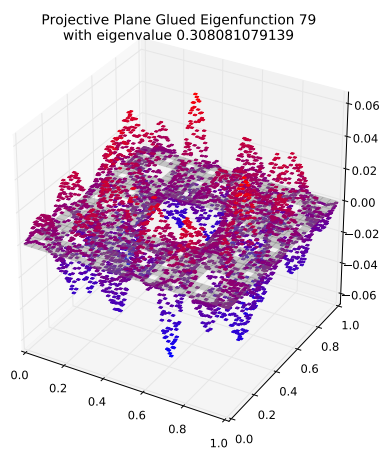
Eigenfunction 77 with eigenvalue 0.306227315854



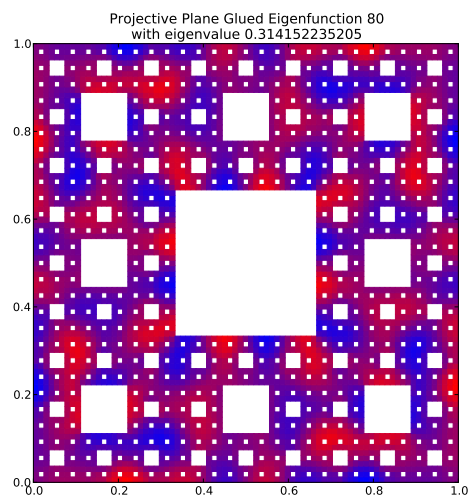
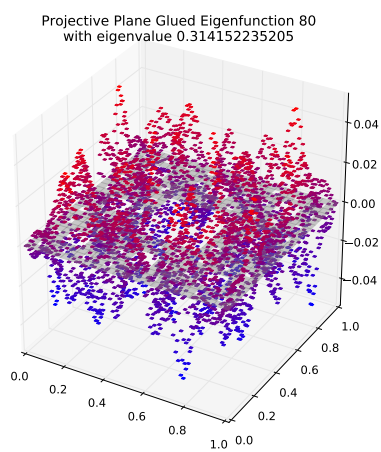
Eigenfunction 78 with eigenvalue 0.308081079139



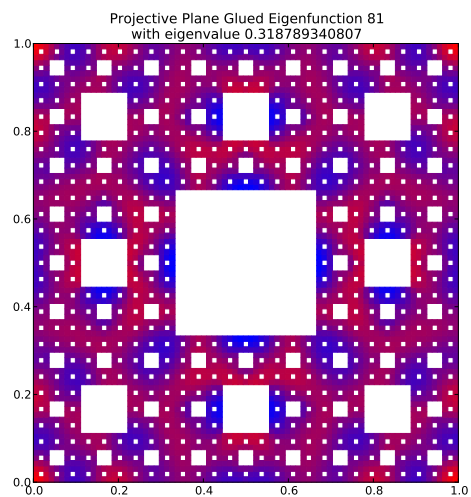
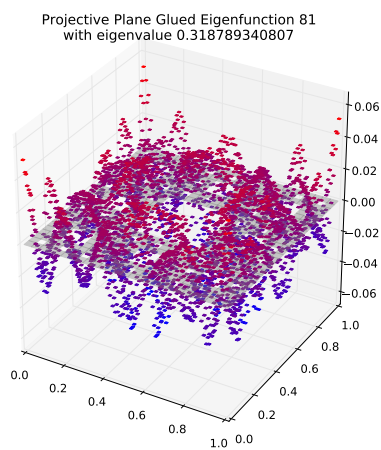
Eigenfunction 79 with eigenvalue 0.308081079139



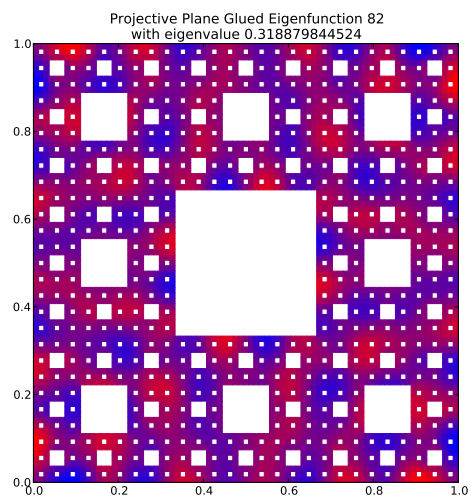
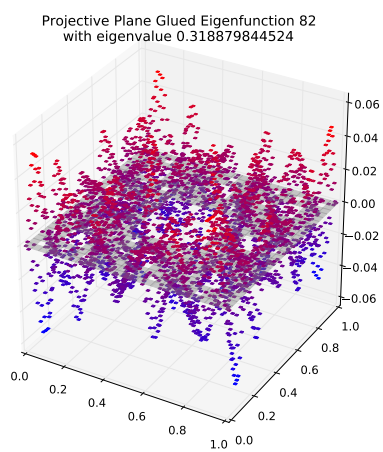
Eigenfunction 80 with eigenvalue 0.314152235205



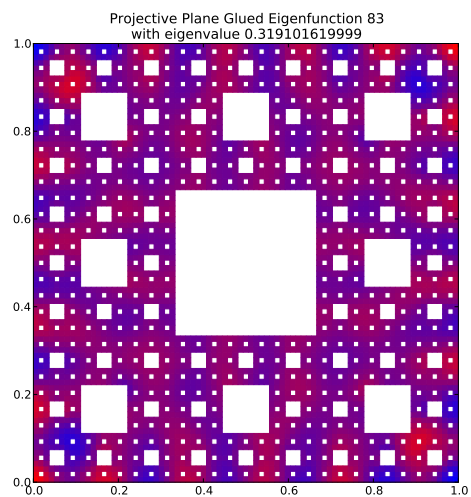
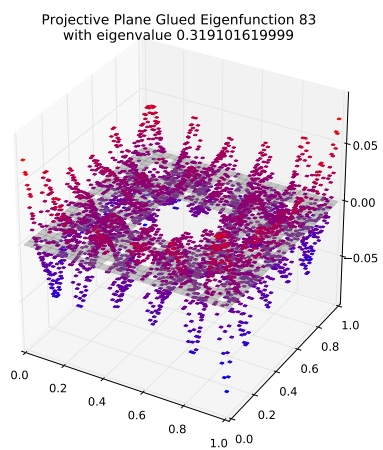
Eigenfunction 81 with eigenvalue 0.318789340807



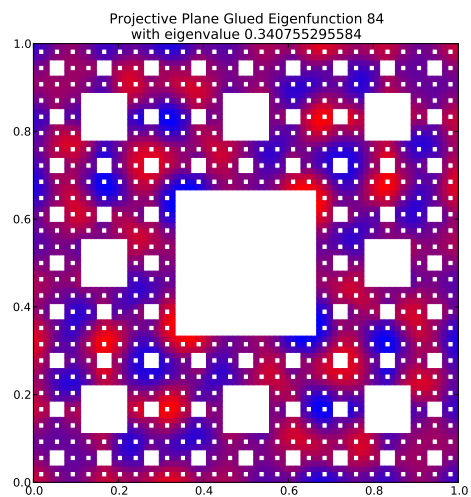
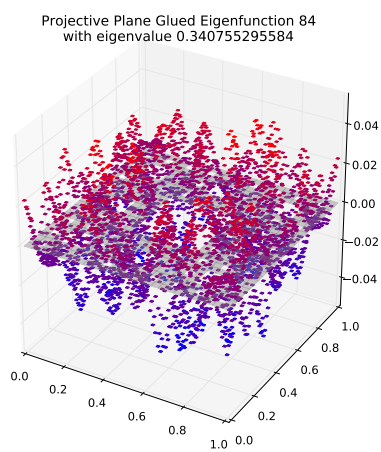
Eigenfunction 82 with eigenvalue 0.318879844524



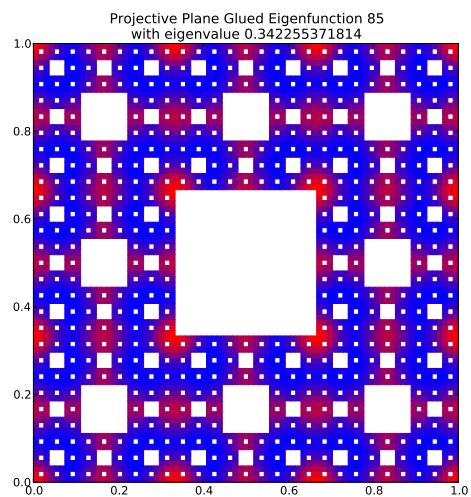
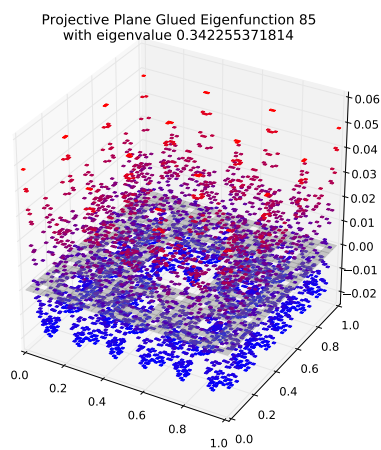
Eigenfunction 83 with eigenvalue 0.319101619999



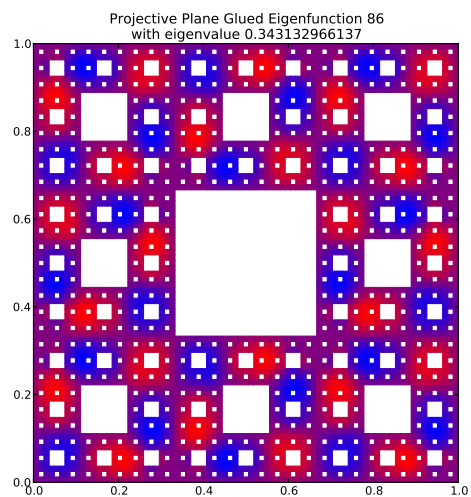
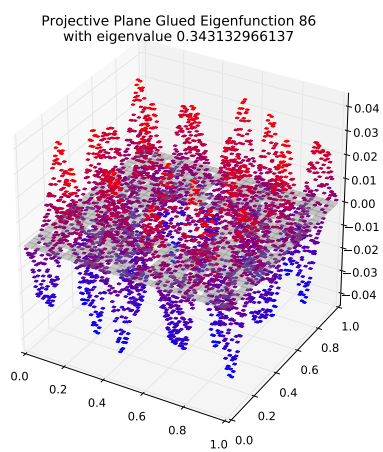
Eigenfunction 84 with eigenvalue 0.340755295584



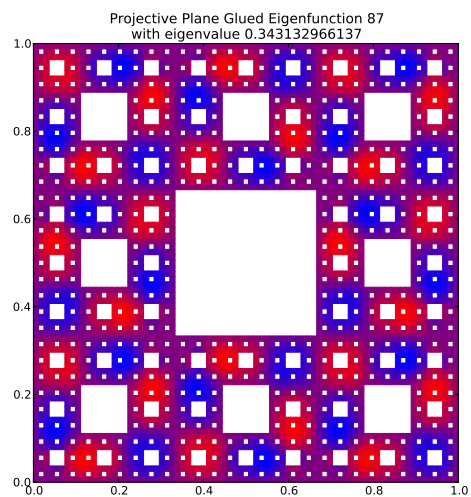
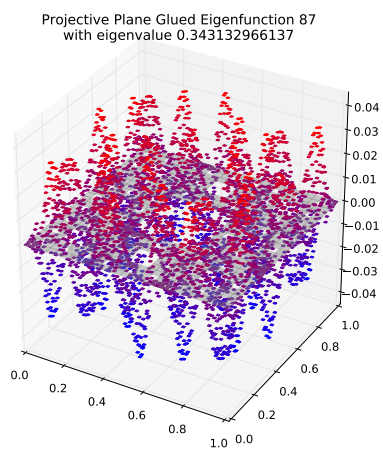
Eigenfunction 85 with eigenvalue 0.342255371814



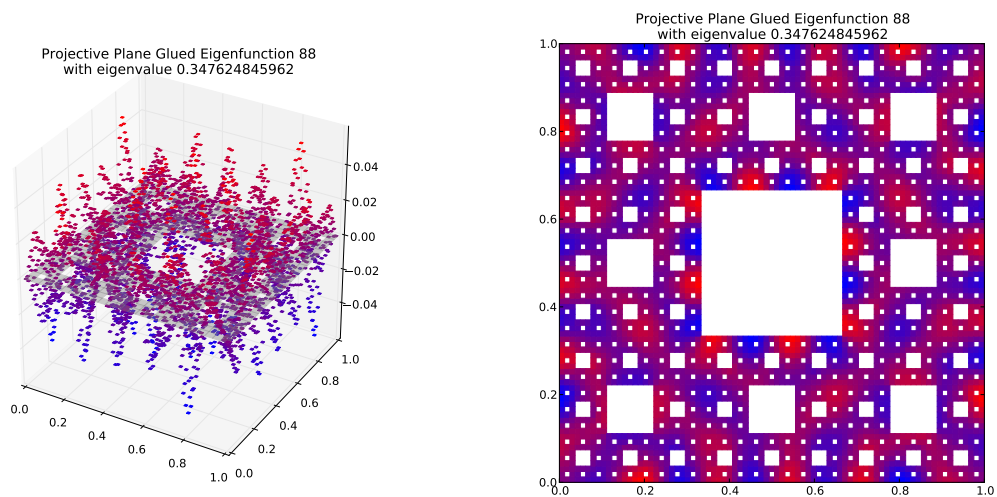
Eigenfunction 86 with eigenvalue 0.343132966137



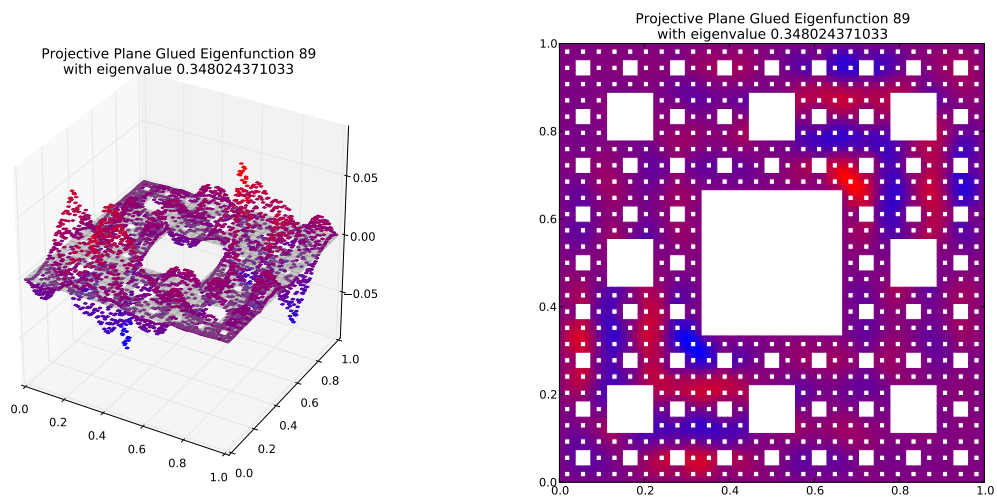
Eigenfunction 87 with eigenvalue 0.343132966137



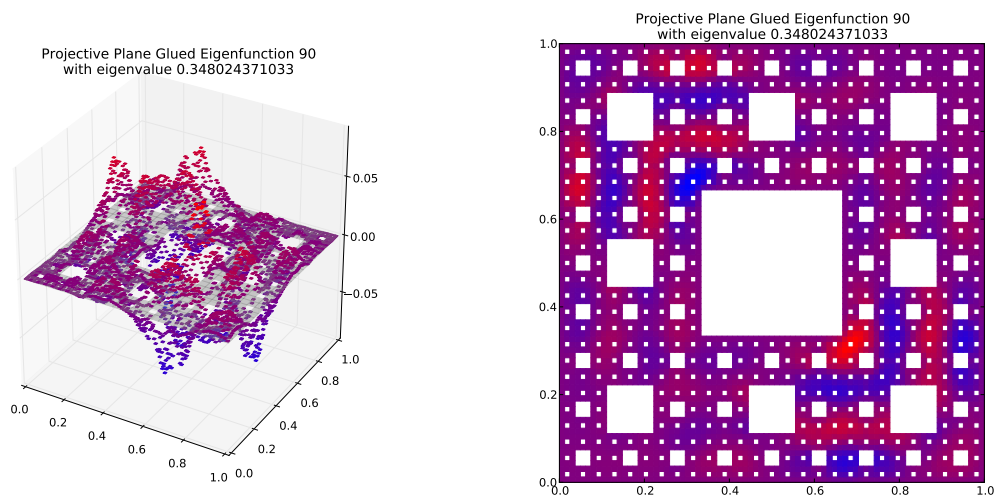
Eigenfunction 88 with eigenvalue 0.347624845962



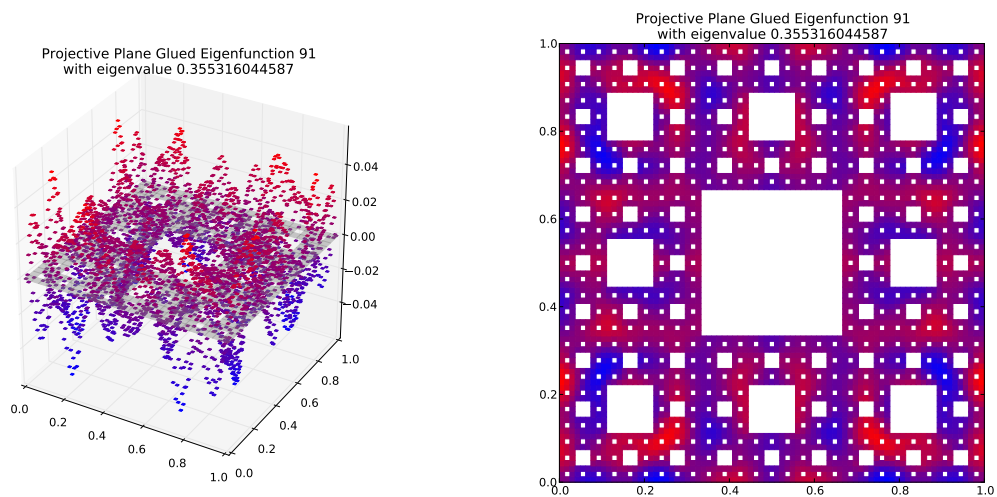
Eigenfunction 89 with eigenvalue 0.348024371033



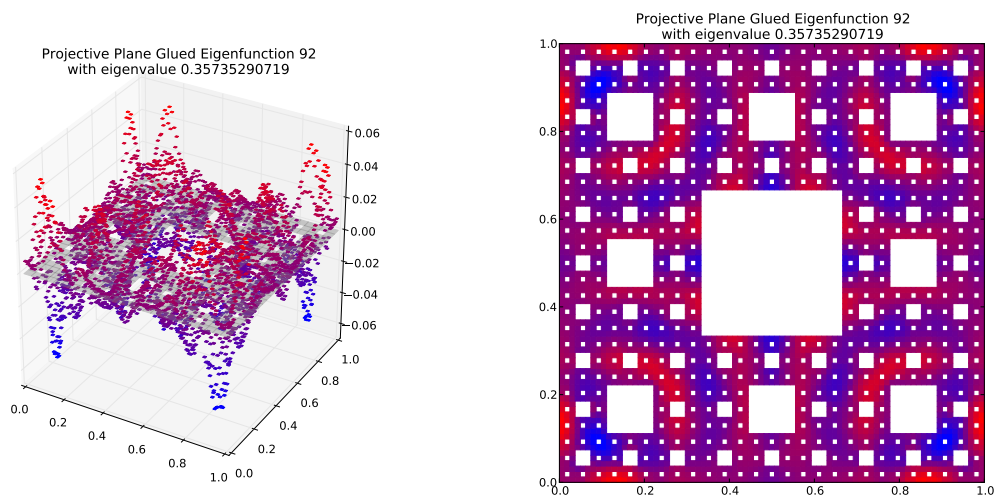
Eigenfunction 90 with eigenvalue 0.348024371033



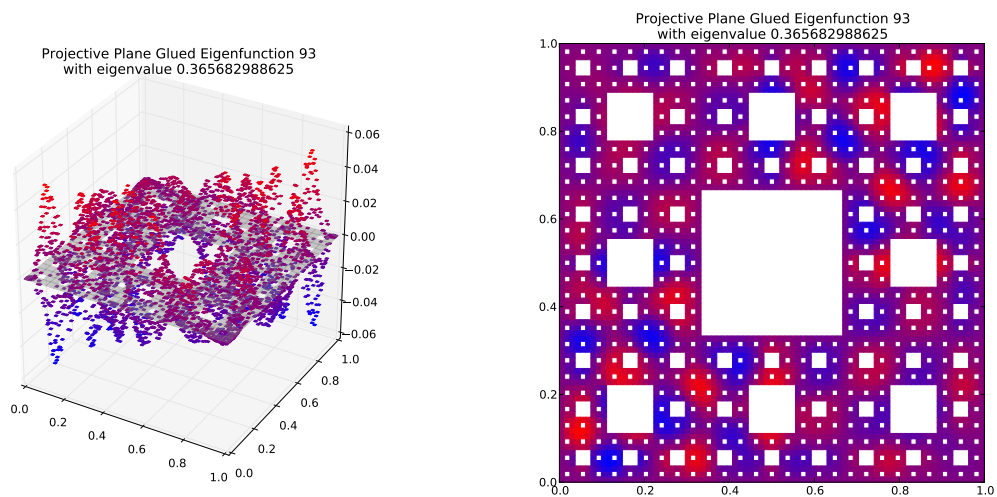
Eigenfunction 91 with eigenvalue 0.355316044587



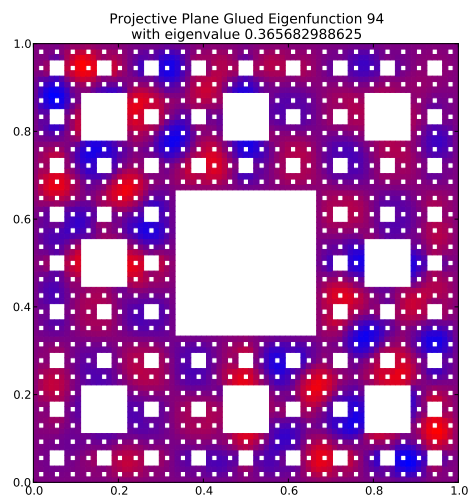
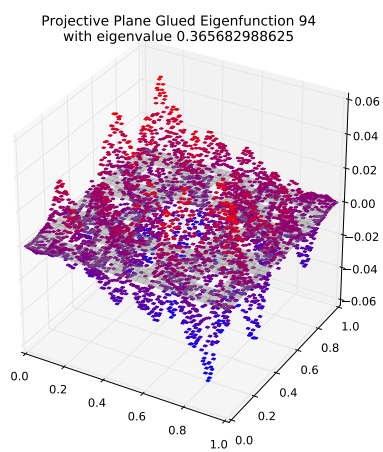
Eigenfunction 92 with eigenvalue 0.35735290719



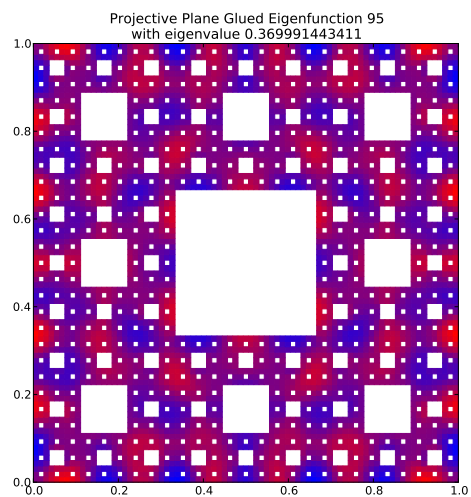
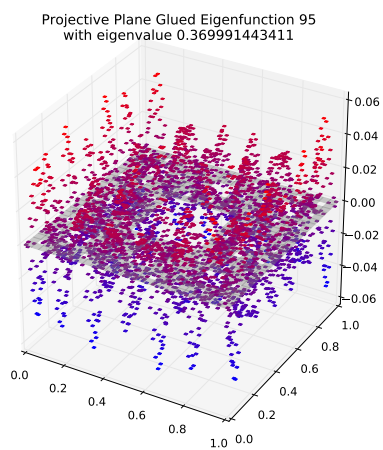
Eigenfunction 93 with eigenvalue 0.365682988625



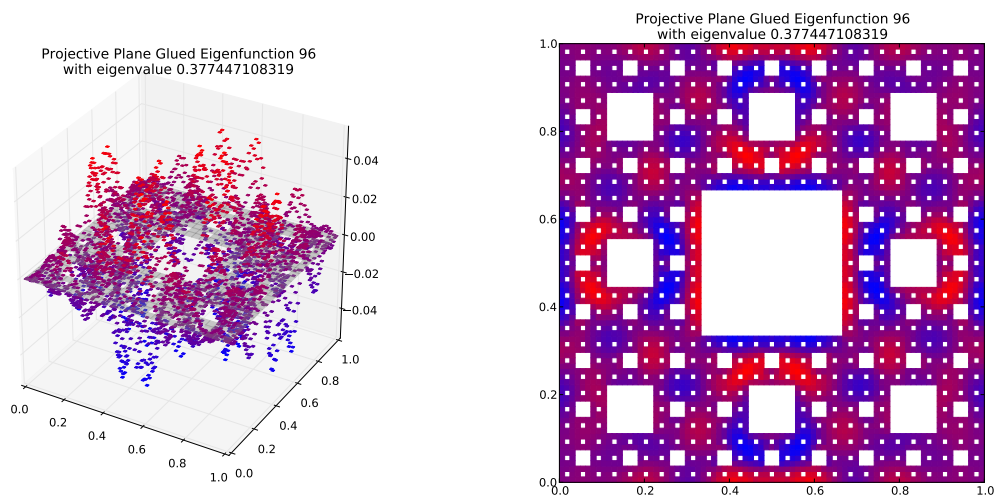
Eigenfunction 94 with eigenvalue 0.365682988625



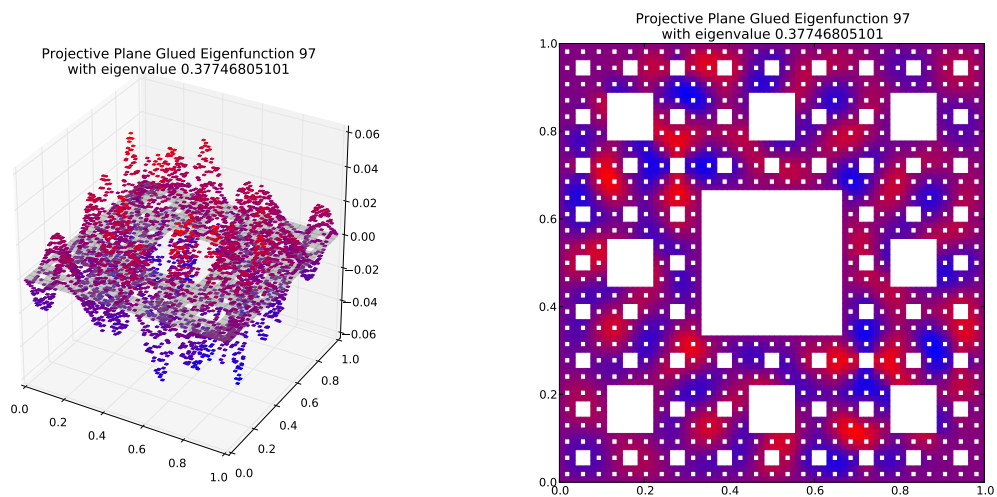
Eigenfunction 95 with eigenvalue 0.369991443411



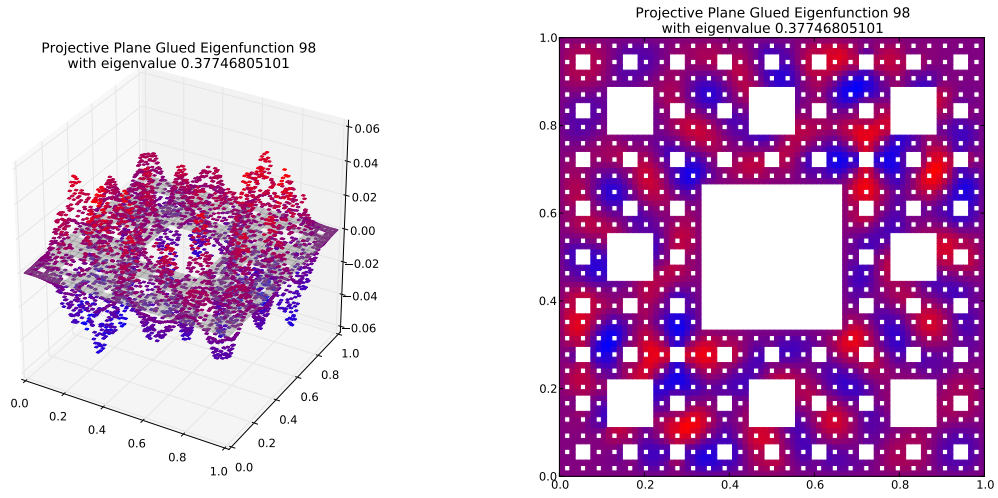
Eigenfunction 96 with eigenvalue 0.377447108319



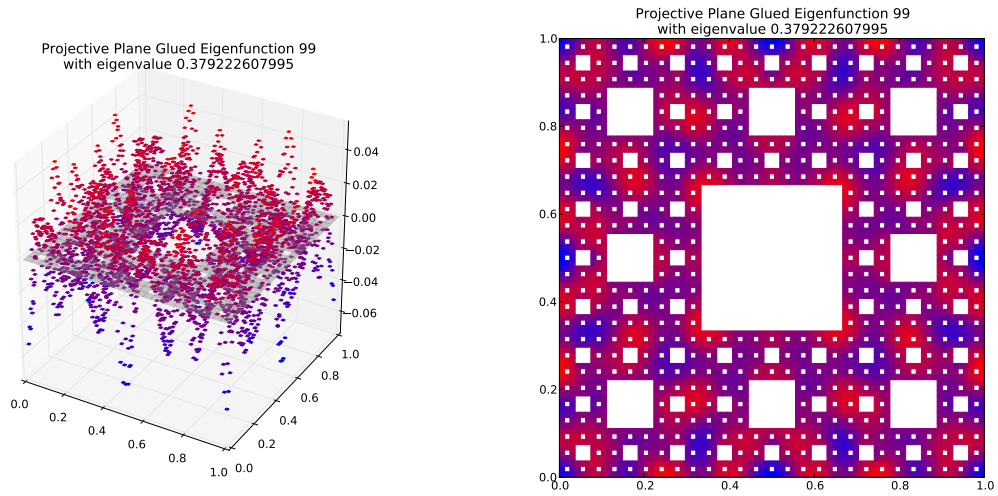
Eigenfunction 97 with eigenvalue 0.37746805101



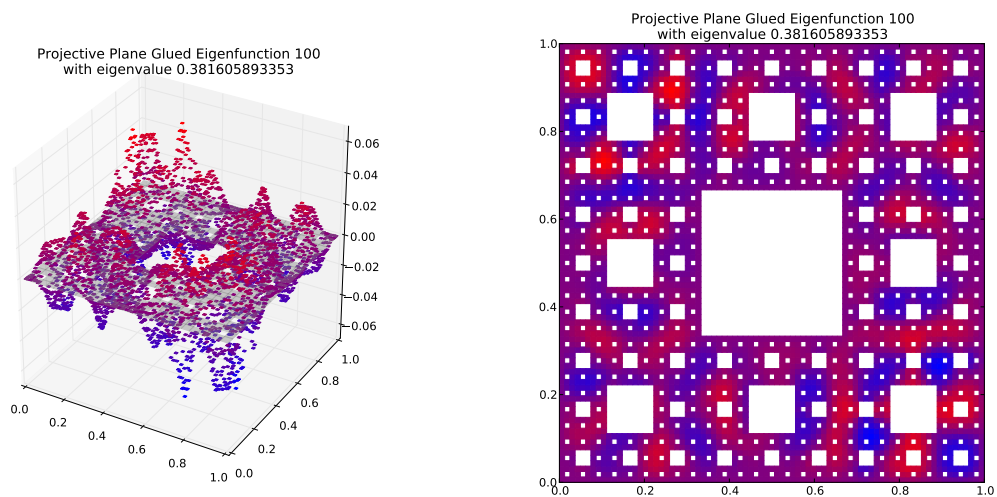
Eigenfunction 98 with eigenvalue 0.37746805101



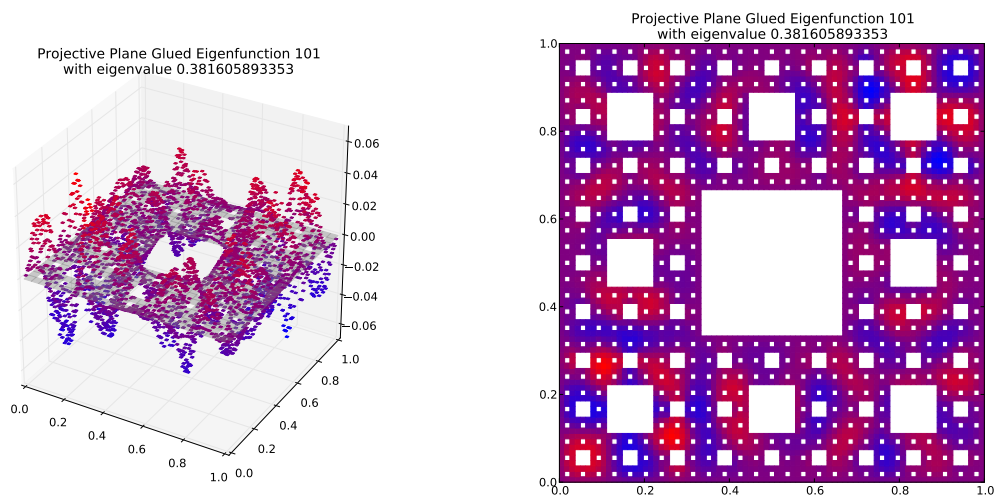
Eigenfunction 99 with eigenvalue 0.379222607995



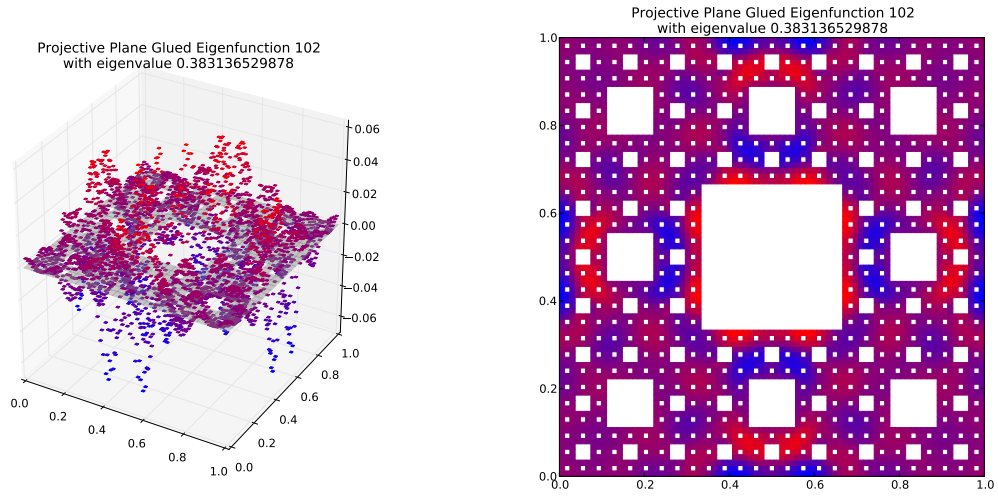
Eigenfunction 100 with eigenvalue 0.381605893353



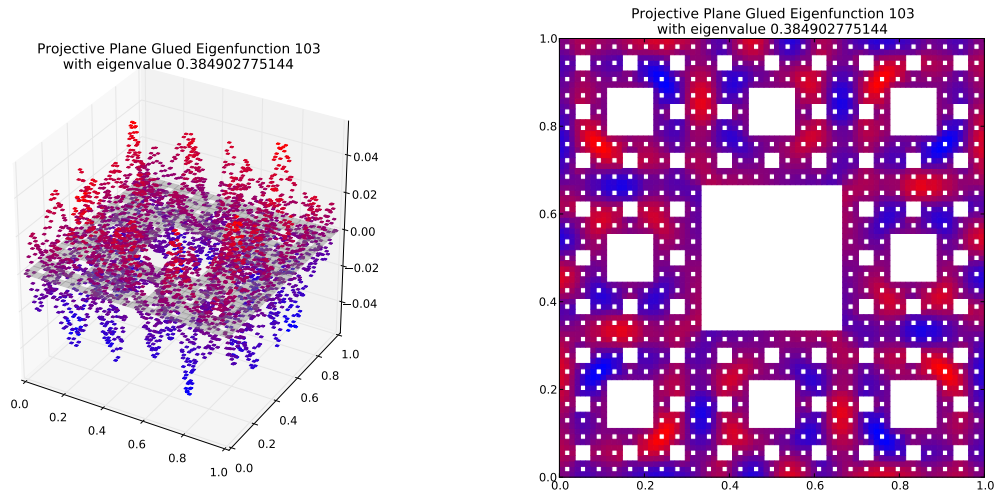
Eigenfunction 101 with eigenvalue 0.381605893353



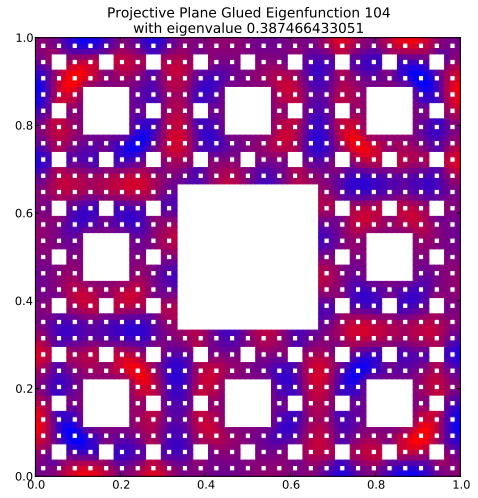
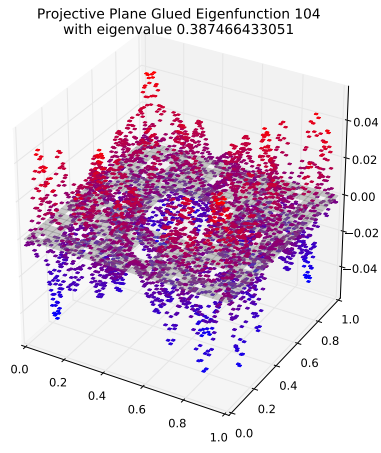
Eigenfunction 102 with eigenvalue 0.383136529878



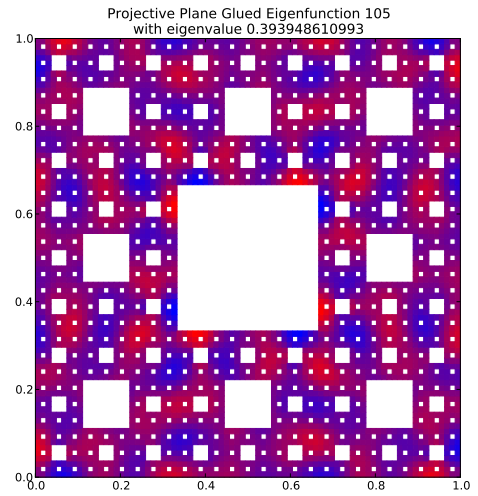
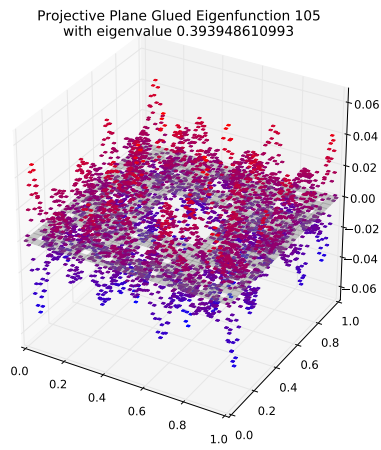
Eigenfunction 103 with eigenvalue 0.384902775144



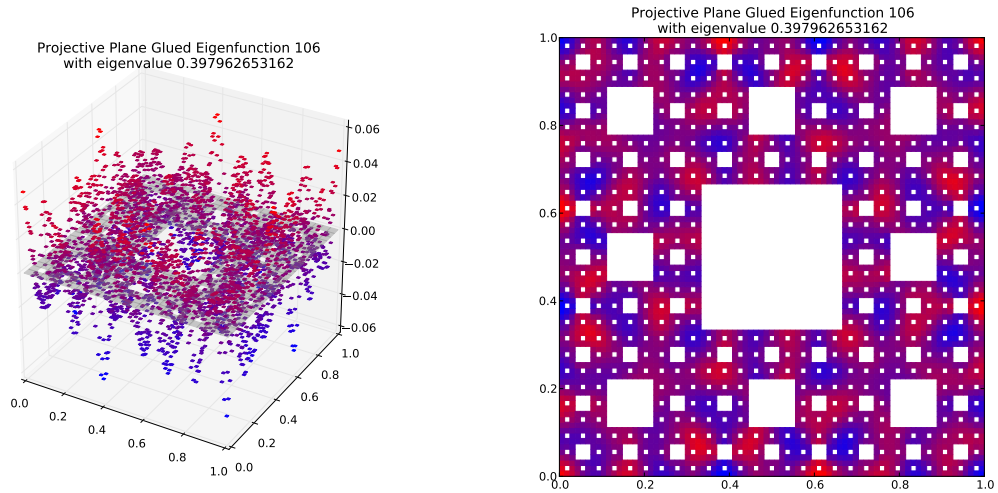
Eigenfunction 104 with eigenvalue 0.387466433051



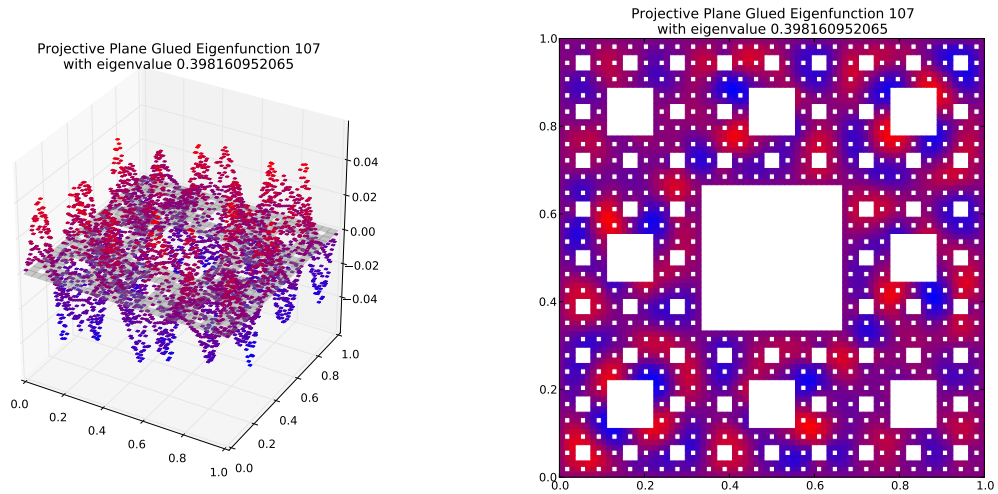
Eigenfunction 105 with eigenvalue 0.393948610993



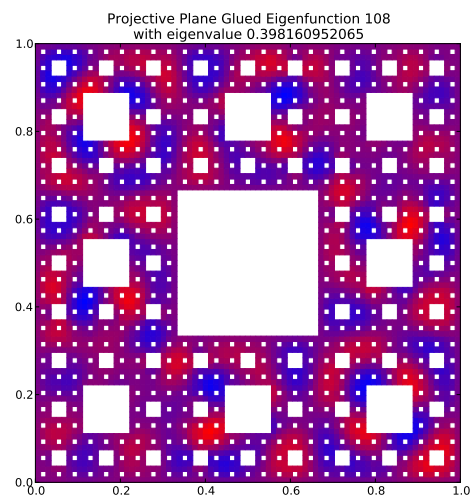
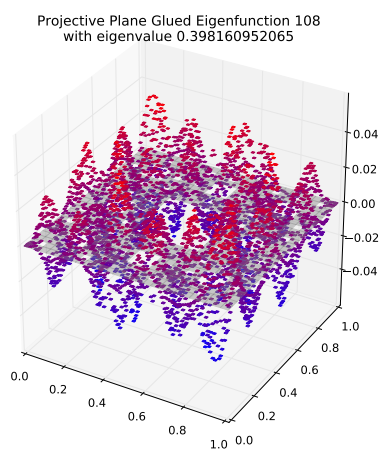
Eigenfunction 106 with eigenvalue 0.397962653162



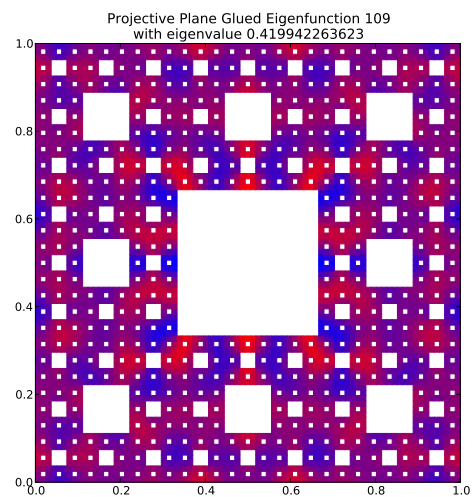
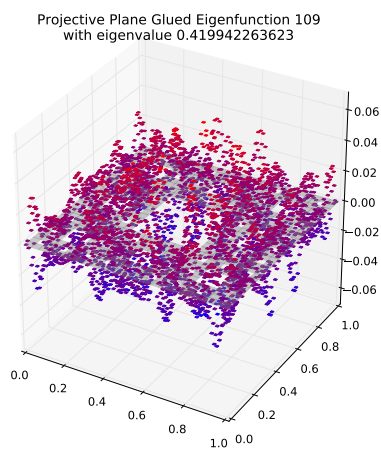
Eigenfunction 107 with eigenvalue 0.398160952065



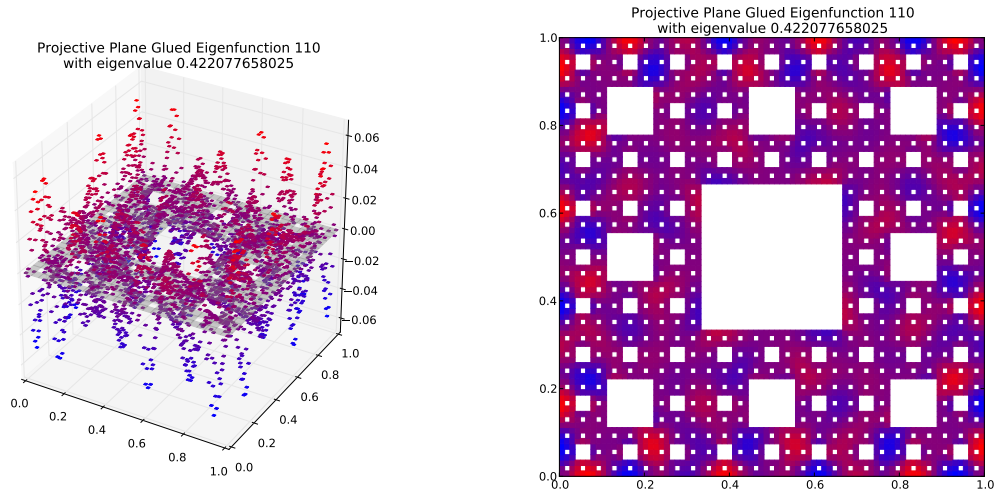
Eigenfunction 108 with eigenvalue 0.398160952065



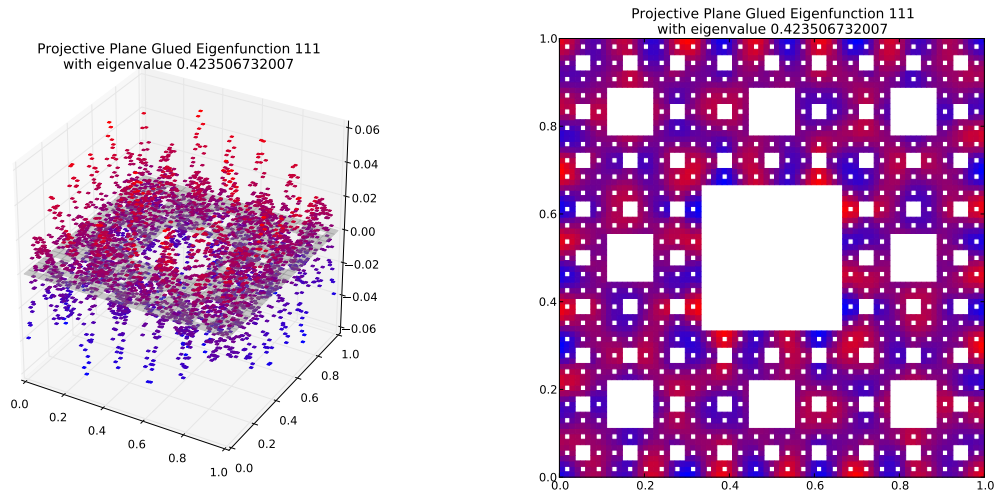
Eigenfunction 109 with eigenvalue 0.419942263623



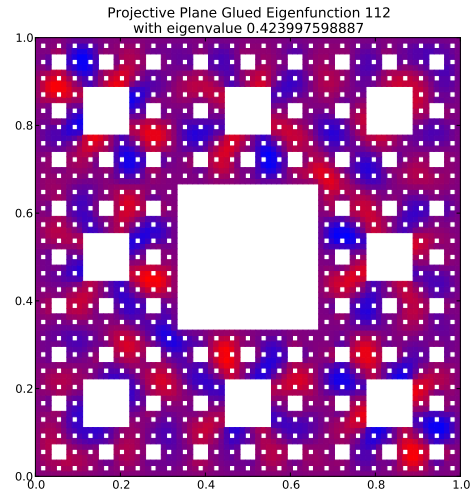
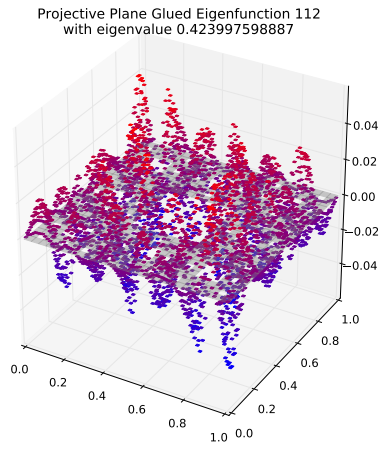
Eigenfunction 110 with eigenvalue 0.422077658025



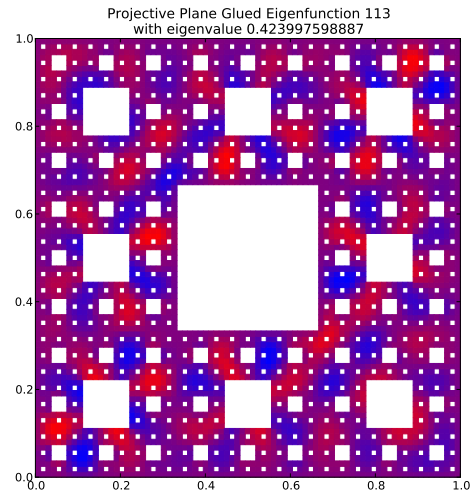
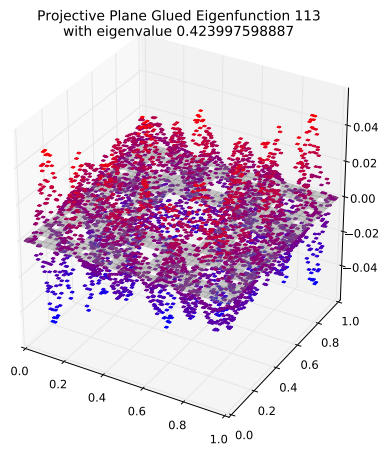
Eigenfunction 111 with eigenvalue 0.423506732007



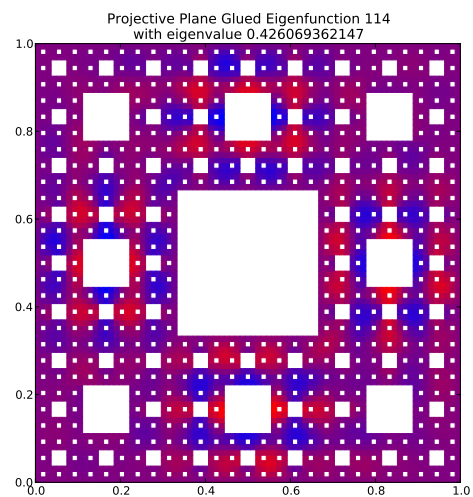
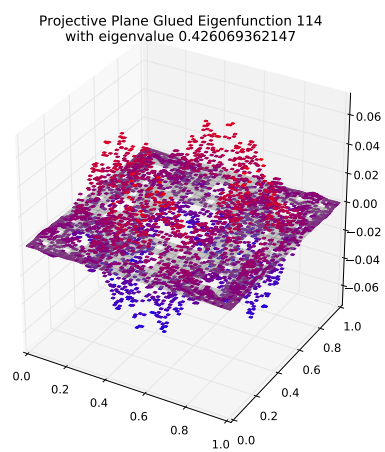
Eigenfunction 112 with eigenvalue 0.423997598887



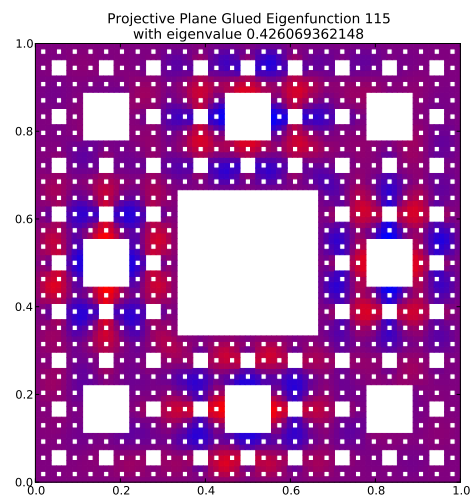
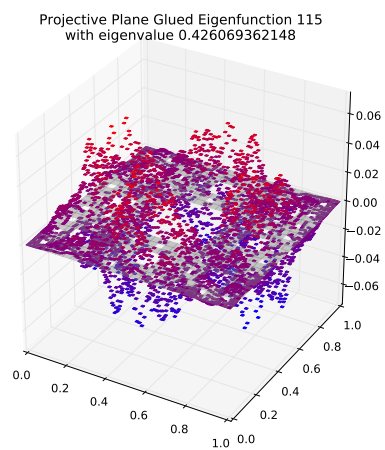
Eigenfunction 113 with eigenvalue 0.423997598887



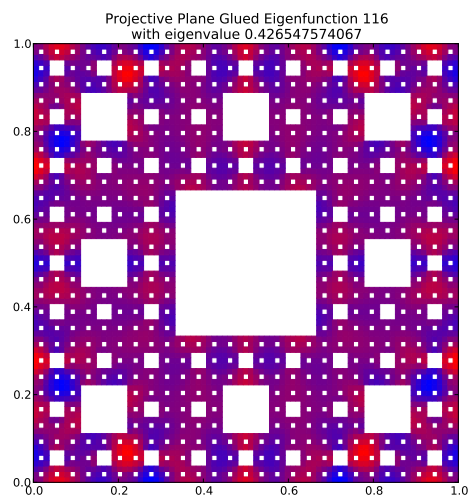
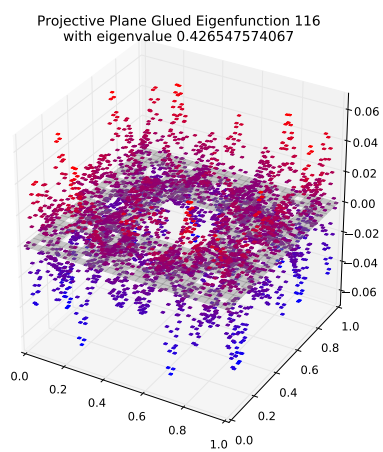
Eigenfunction 114 with eigenvalue 0.426069362147



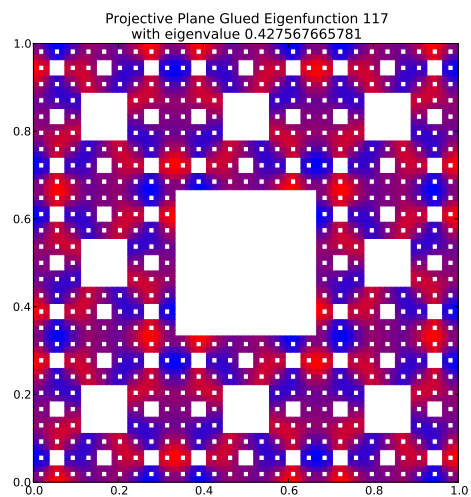
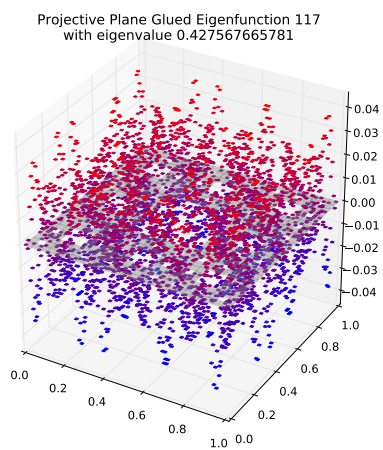
Eigenfunction 115 with eigenvalue 0.426069362148



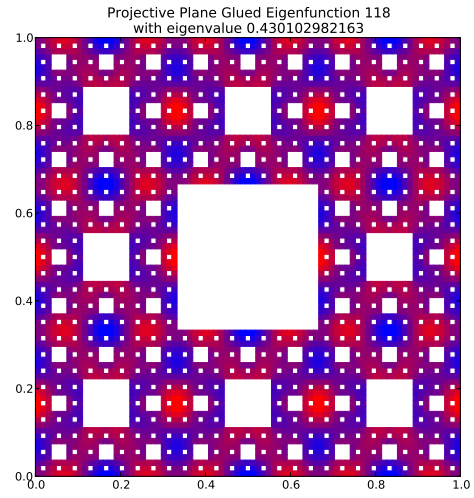
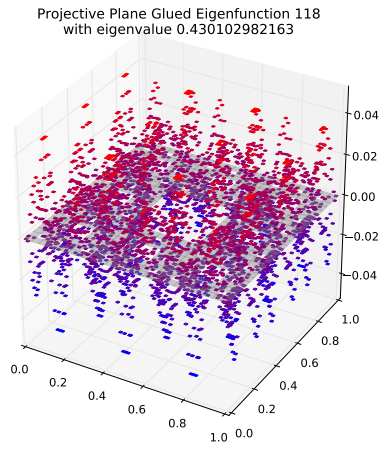
Eigenfunction 116 with eigenvalue 0.426547574067



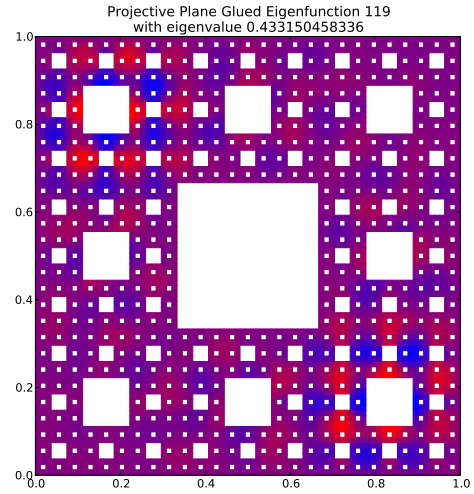
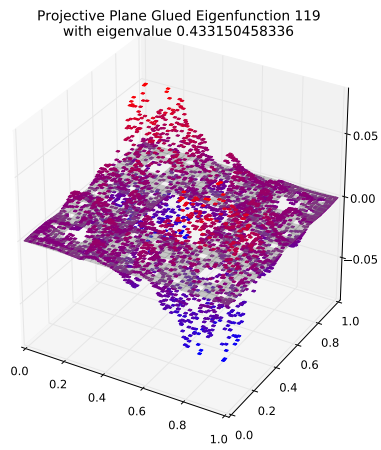
Eigenfunction 117 with eigenvalue 0.427567665781



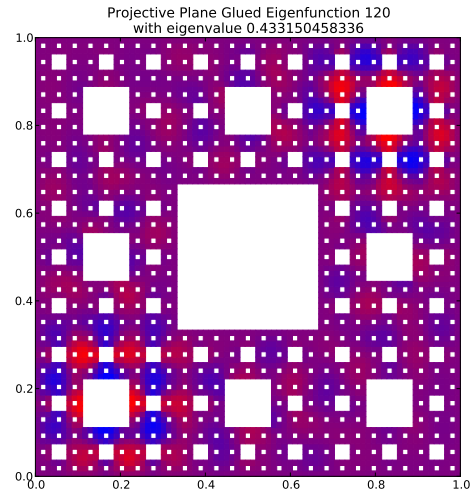
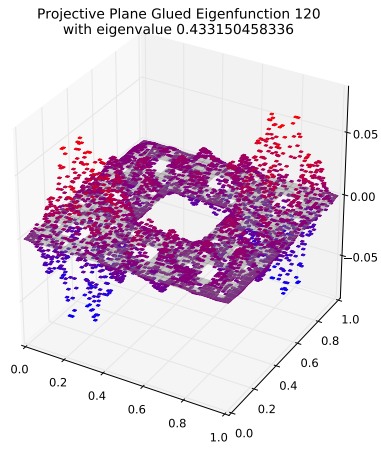
Eigenfunction 118 with eigenvalue 0.430102982163



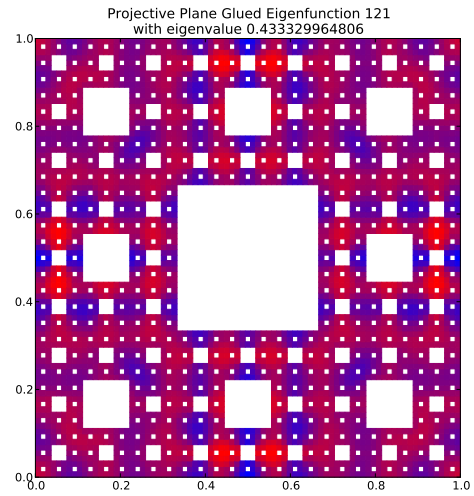
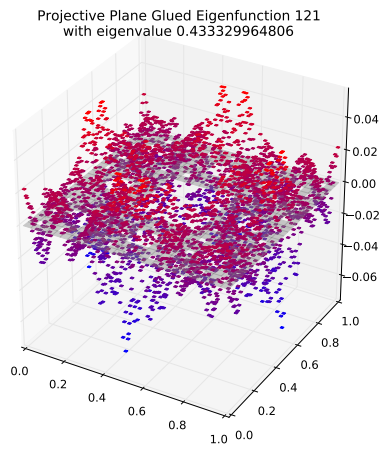
Eigenfunction 119 with eigenvalue 0.433150458336



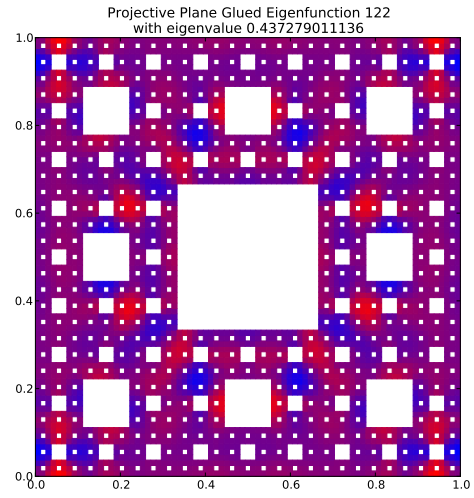
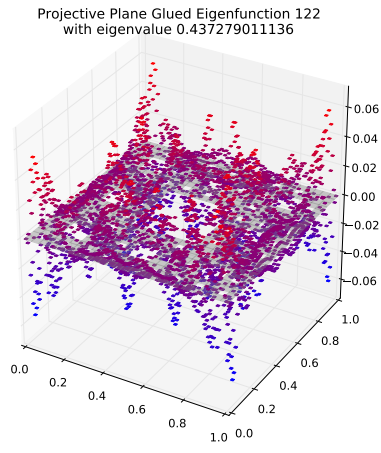
Eigenfunction 120 with eigenvalue 0.433150458336



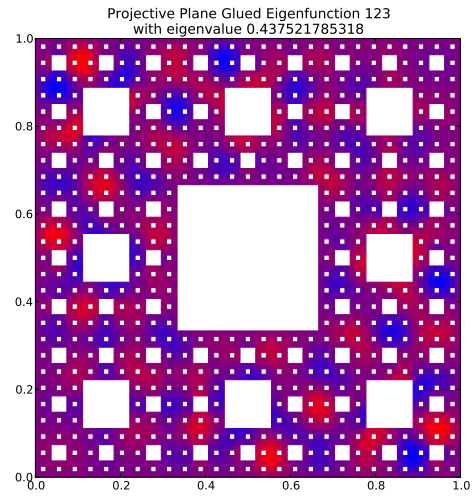
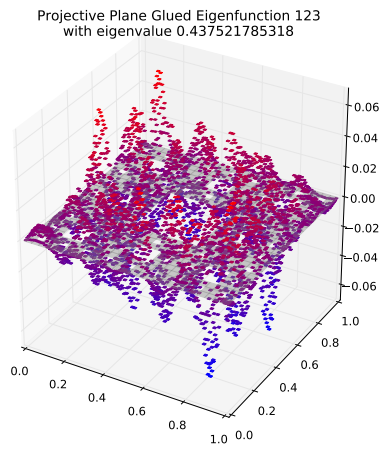
Eigenfunction 121 with eigenvalue 0.433329964806



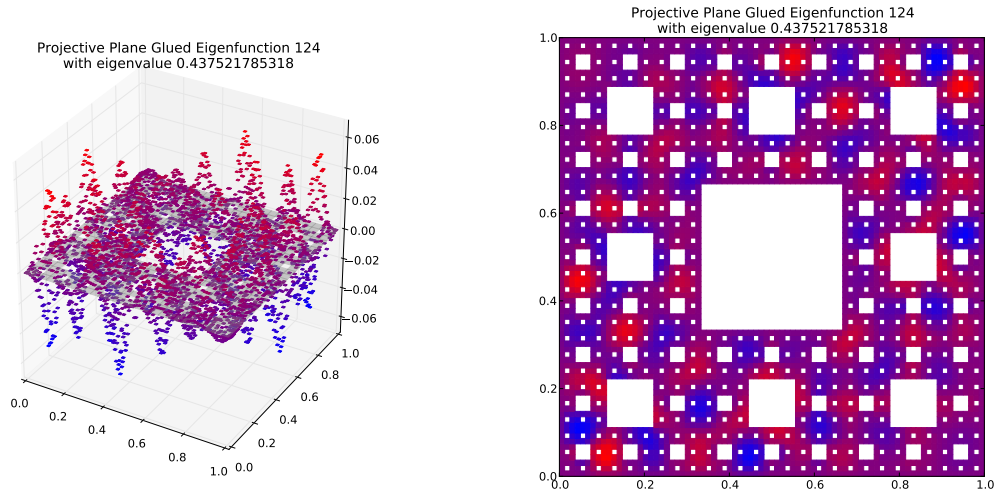
Eigenfunction 122 with eigenvalue 0.437279011136



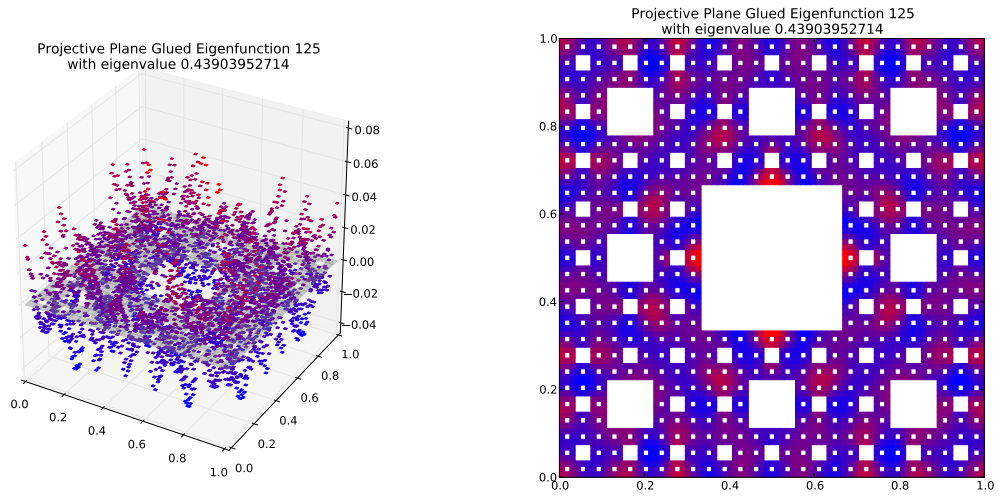
Eigenfunction 123 with eigenvalue 0.437521785318



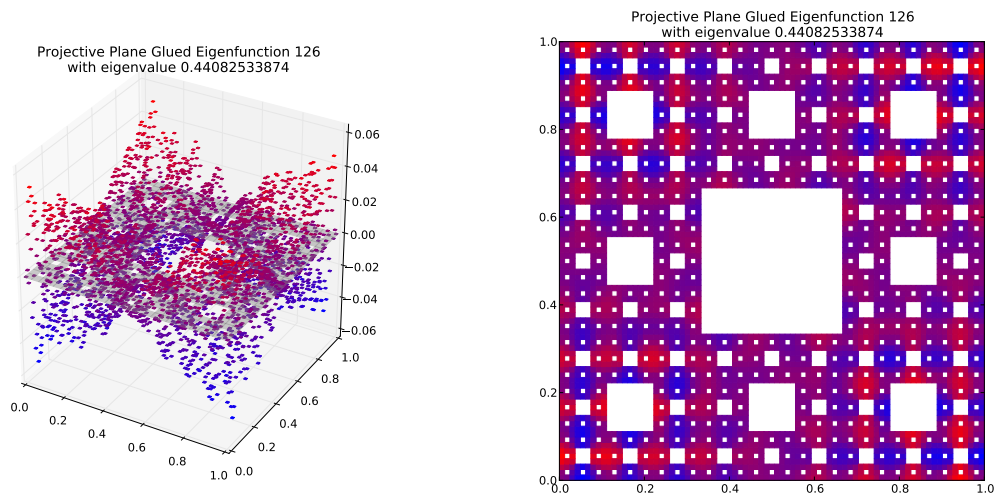
Eigenfunction 124 with eigenvalue 0.437521785318



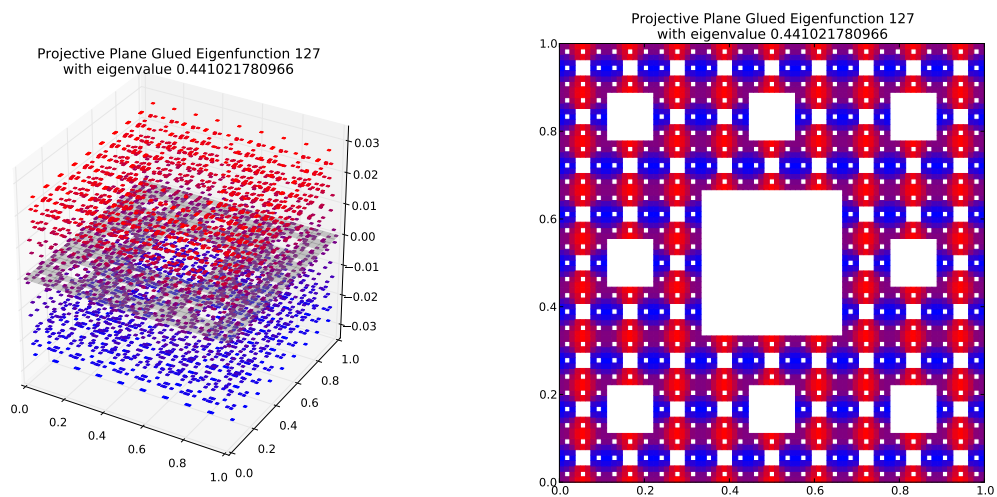
Eigenfunction 125 with eigenvalue 0.43903952714



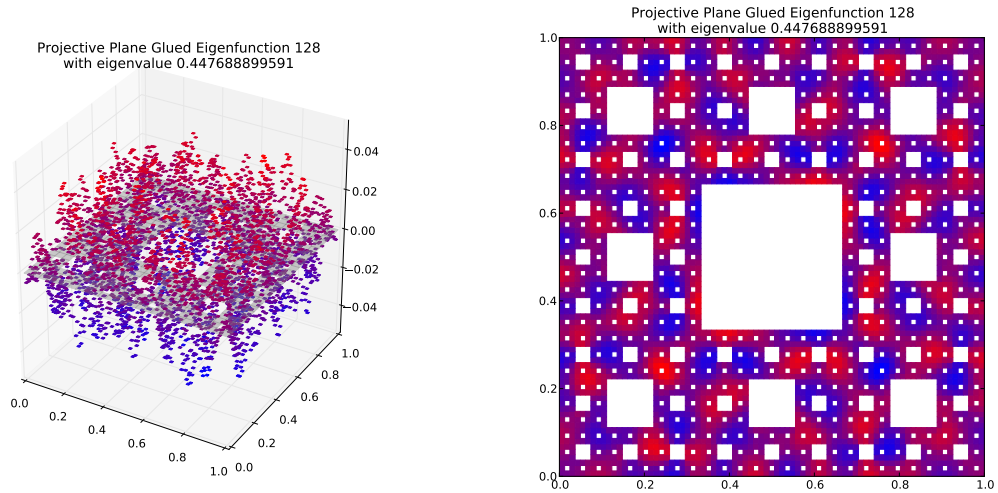
Eigenfunction 126 with eigenvalue 0.44082533874



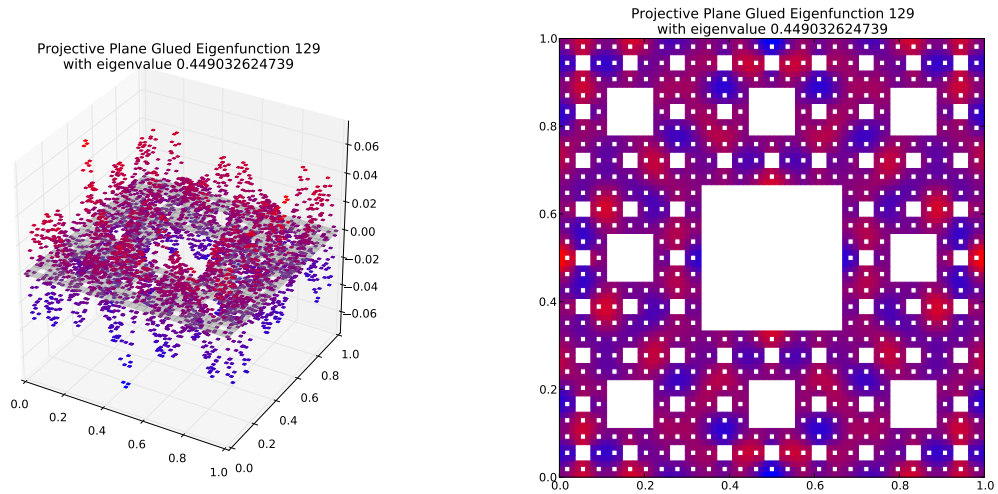
Eigenfunction 127 with eigenvalue 0.441021780966



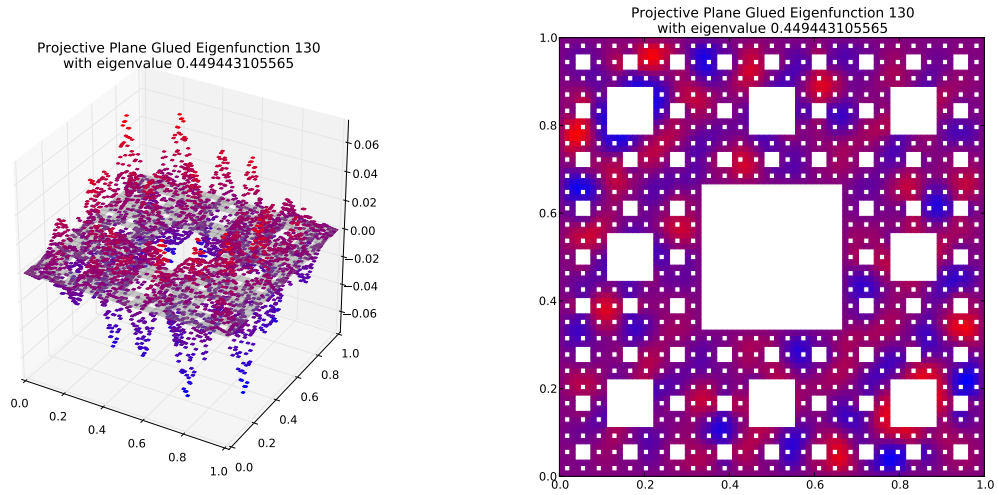
Eigenfunction 128 with eigenvalue 0.447688899591



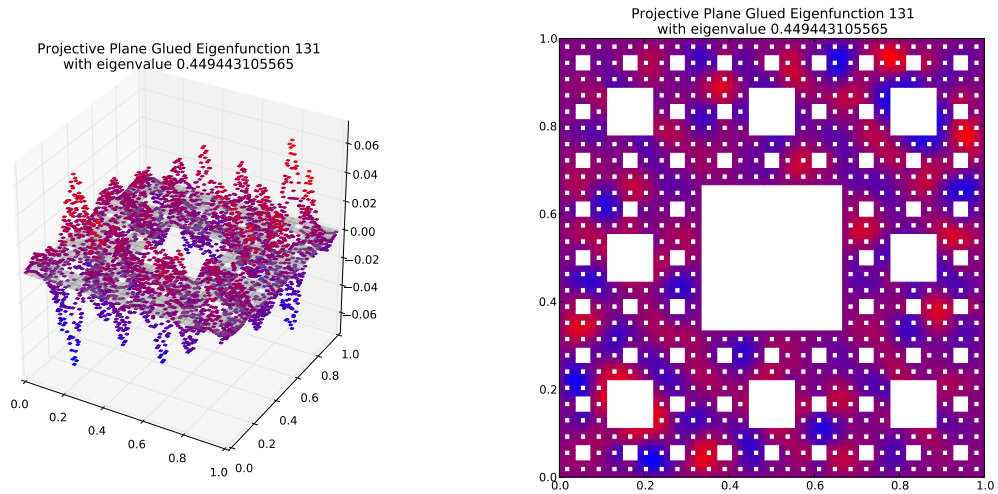
Eigenfunction 129 with eigenvalue 0.449032624739



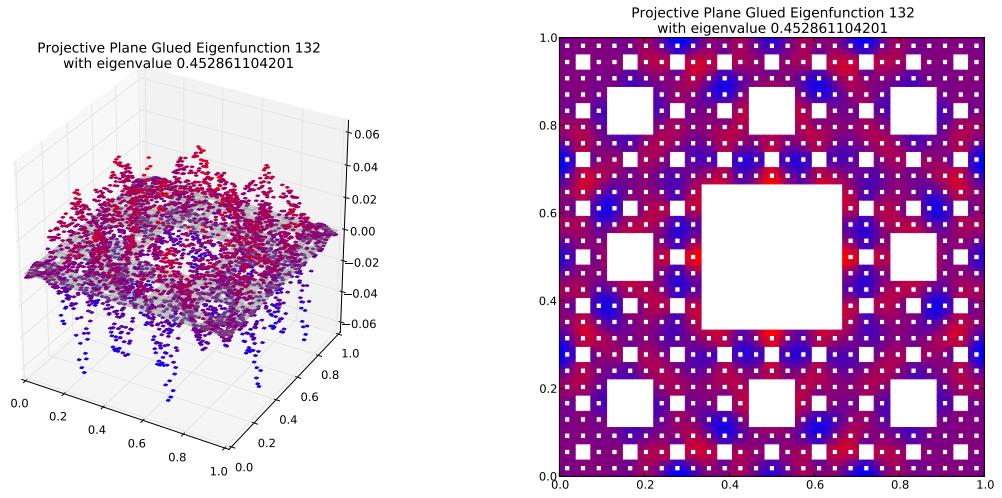
Eigenfunction 130 with eigenvalue 0.449443105565



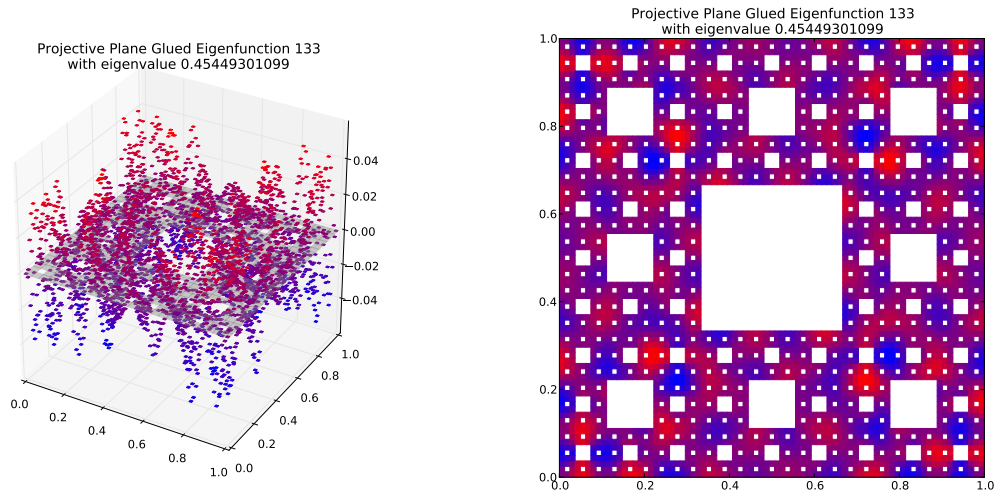
Eigenfunction 131 with eigenvalue 0.449443105565



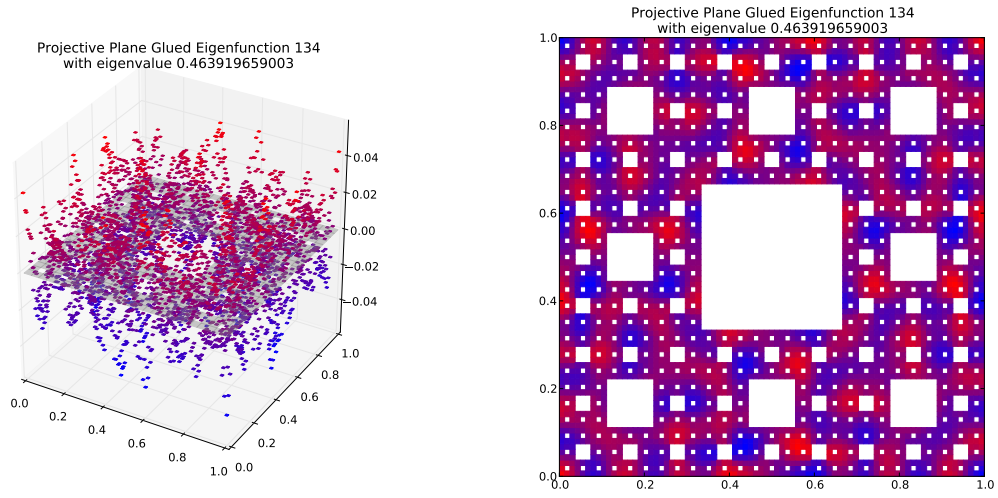
Eigenfunction 132 with eigenvalue 0.452861104201



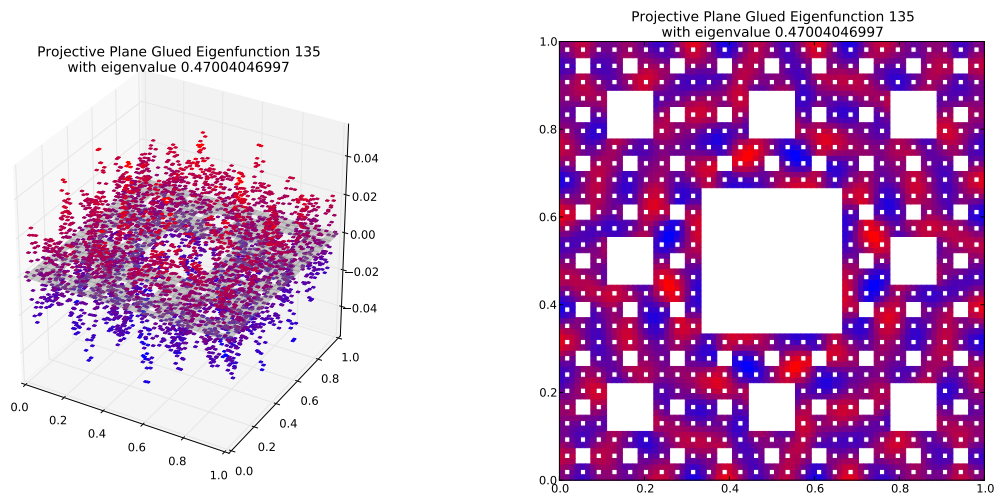
Eigenfunction 133 with eigenvalue 0.45449301099



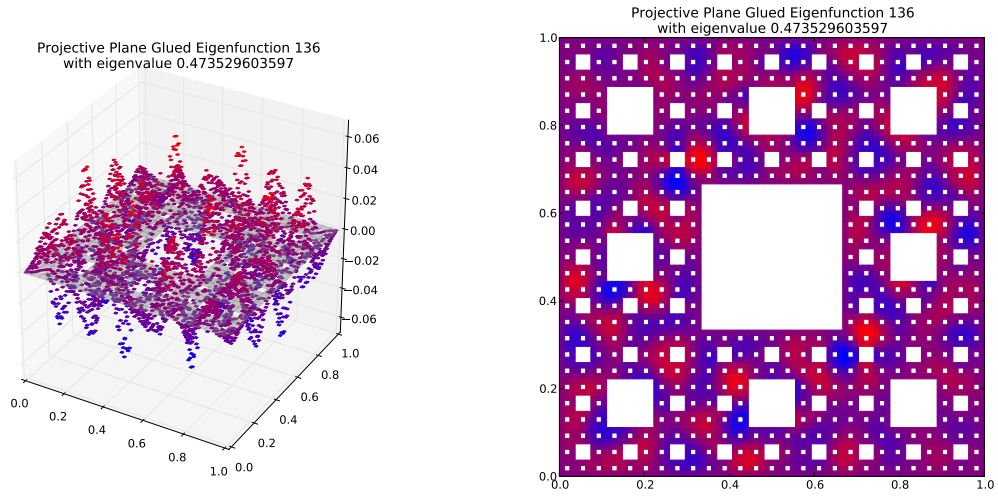
Eigenfunction 134 with eigenvalue 0.463919659003



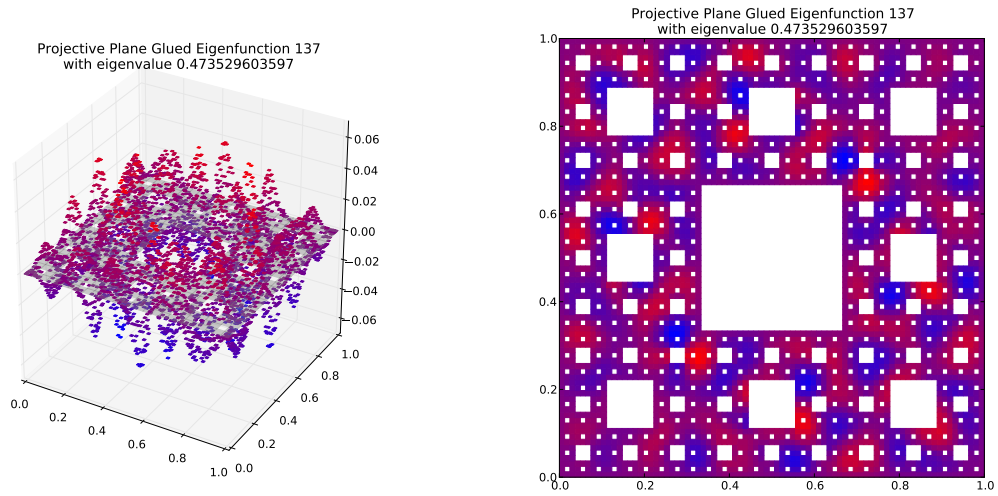
Eigenfunction 135 with eigenvalue 0.47004046997



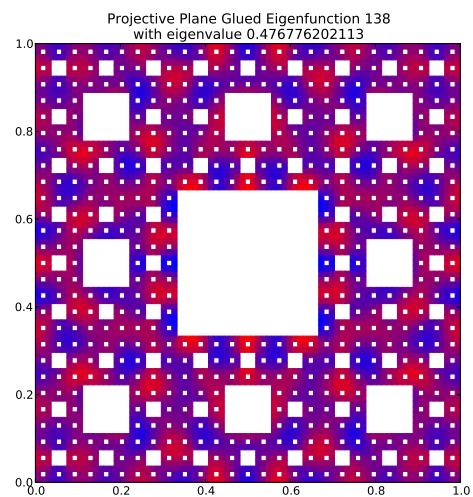
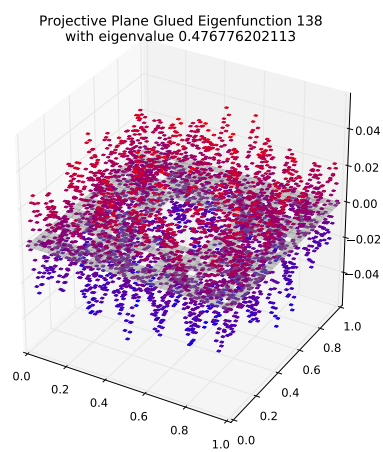
Eigenfunction 136 with eigenvalue 0.473529603597



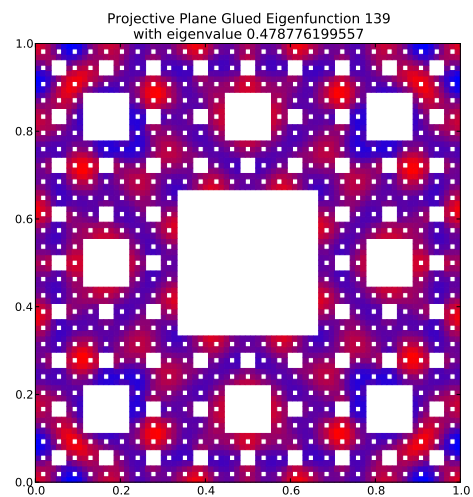
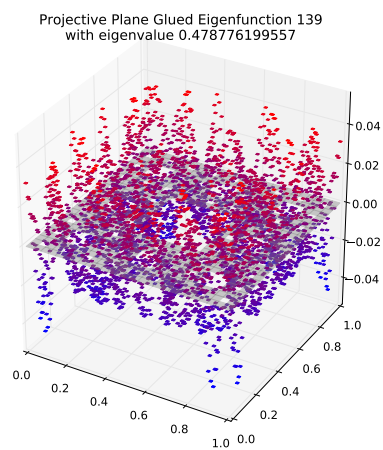
Eigenfunction 137 with eigenvalue 0.473529603597



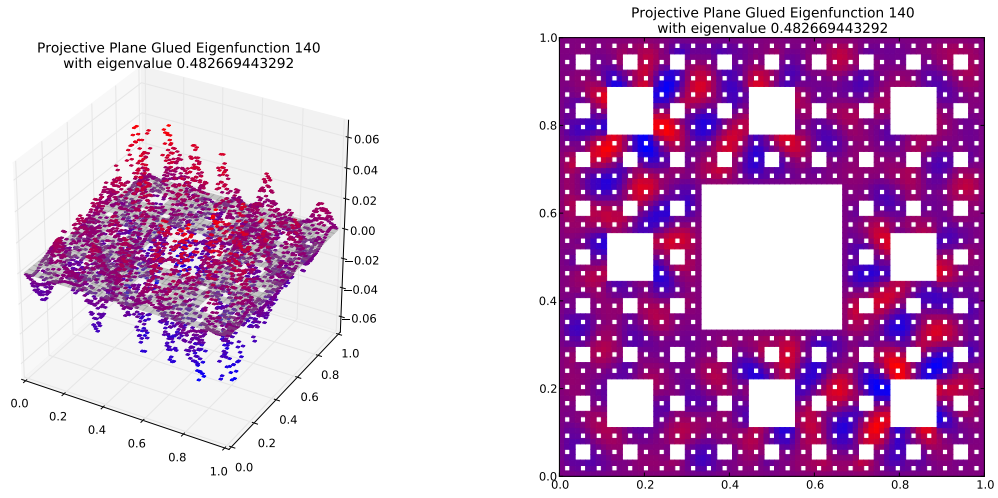
Eigenfunction 138 with eigenvalue 0.476776202113



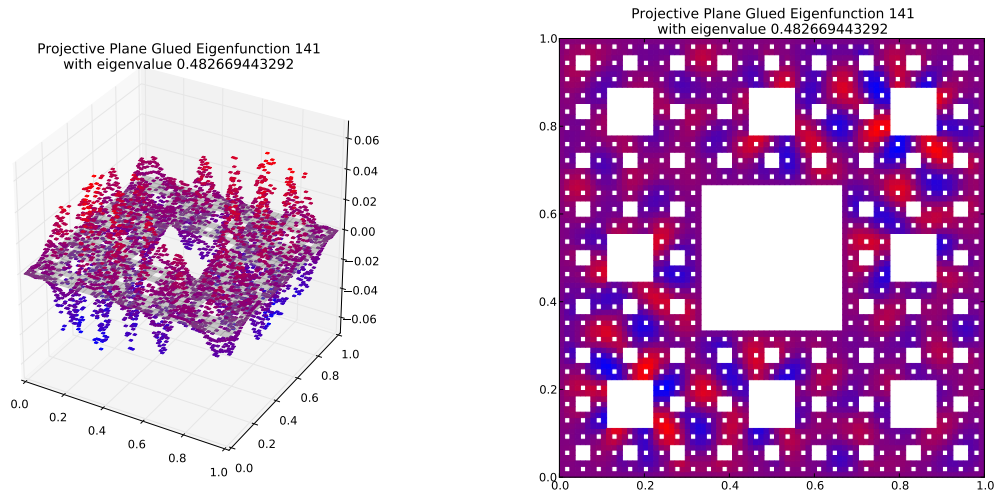
Eigenfunction 139 with eigenvalue 0.478776199557



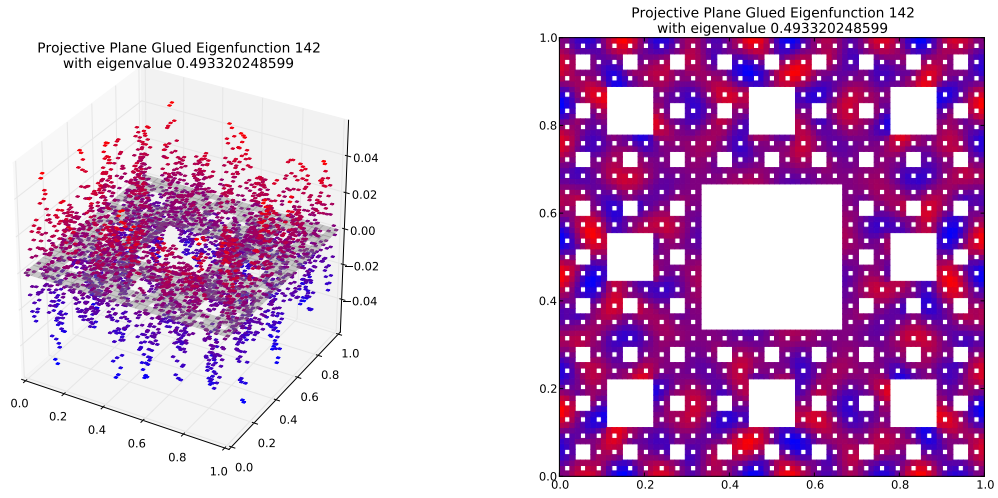
Eigenfunction 140 with eigenvalue 0.482669443292



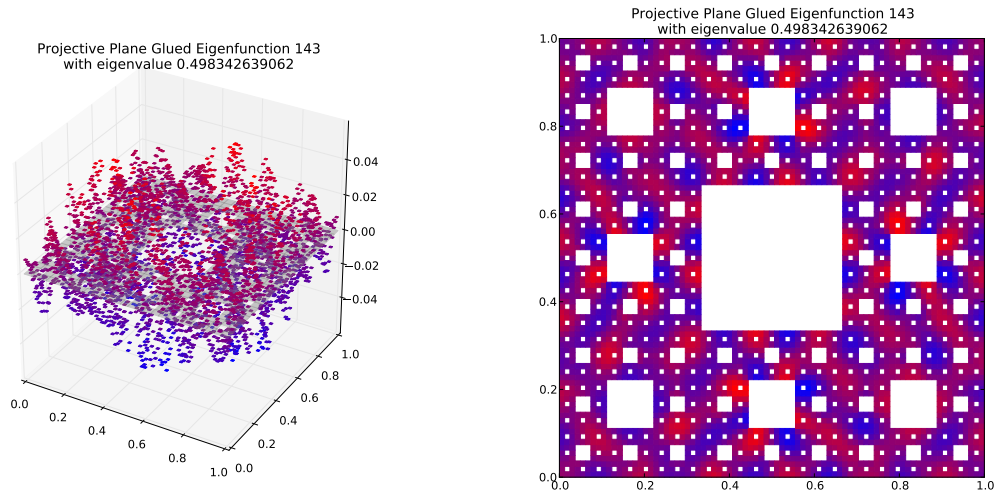
Eigenfunction 141 with eigenvalue 0.482669443292



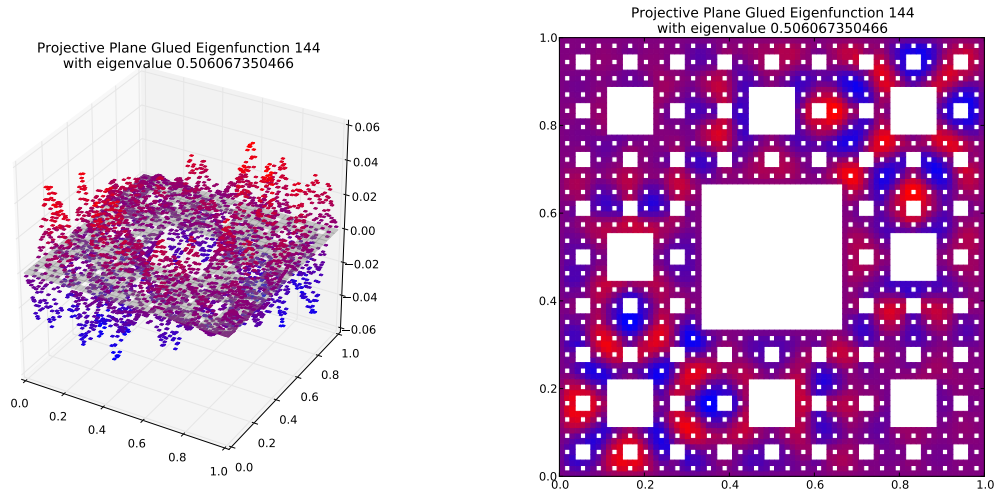
Eigenfunction 142 with eigenvalue 0.493320248599



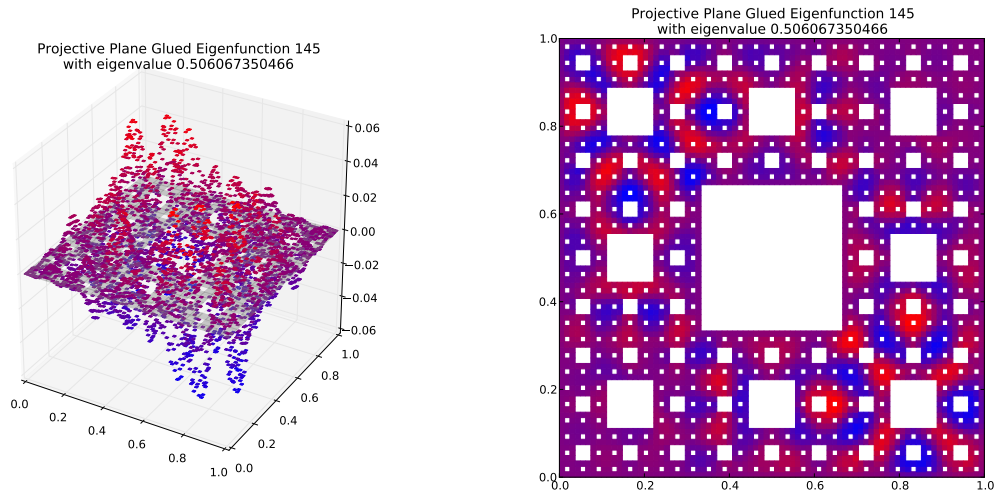
Eigenfunction 143 with eigenvalue 0.498342639062



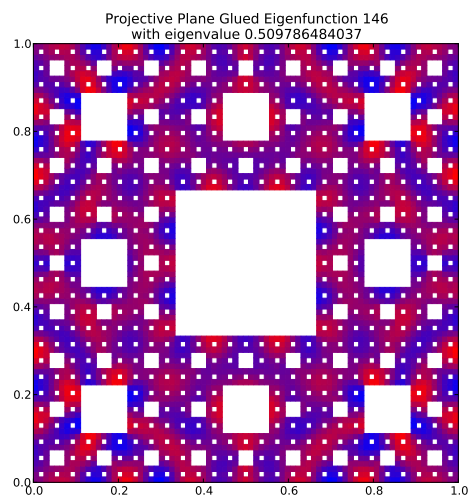
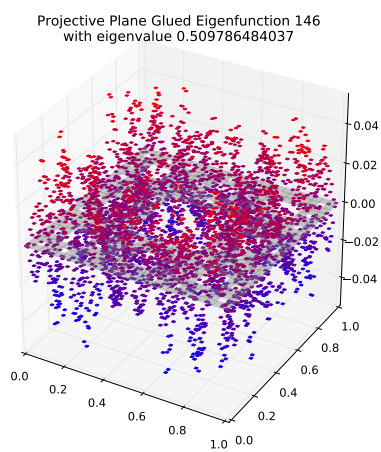
Eigenfunction 144 with eigenvalue 0.506067350466



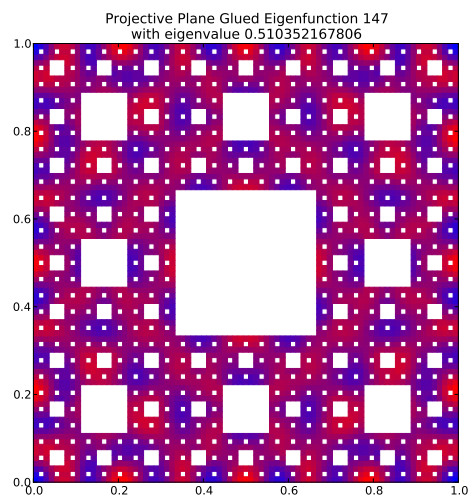
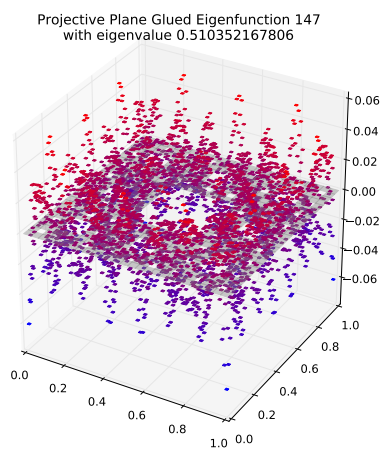
Eigenfunction 145 with eigenvalue 0.506067350466



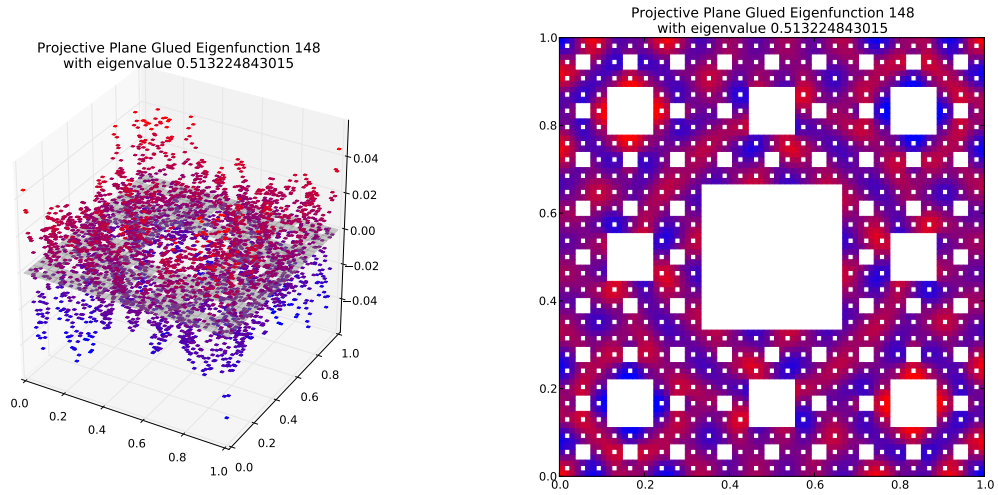
Eigenfunction 146 with eigenvalue 0.509786484037



Eigenfunction 147 with eigenvalue 0.510352167806



Eigenfunction 148 with eigenvalue 0.513224843015



Eigenfunction 149 with eigenvalue 0.52276095502

