

# Ident(T,T,T,KH,T) Eigenfunctions of the Graph Laplacian for $M = 4$

August 12, 2016

Eigenvalues:

|                      |                    |                    |
|----------------------|--------------------|--------------------|
| 0. 1.91513471748e-15 | 31. 0.125173334401 | 62. 0.263276951329 |
| 1. 0.0112060796759   | 32. 0.135986846996 | 63. 0.263899415314 |
| 2. 0.0173717074964   | 33. 0.146332570058 | 64. 0.263983686755 |
| 3. 0.0176908426667   | 34. 0.146440105505 | 65. 0.265941421919 |
| 4. 0.0187360475253   | 35. 0.151904560908 | 66. 0.267494332208 |
| 5. 0.0363222830389   | 36. 0.154461497415 | 67. 0.27619864679  |
| 6. 0.0382164798337   | 37. 0.156130512618 | 68. 0.277012192399 |
| 7. 0.0384601478566   | 38. 0.160369345002 | 69. 0.284412317861 |
| 8. 0.0396307011653   | 39. 0.160498289695 | 70. 0.292175447094 |
| 9. 0.0442976404751   | 40. 0.17144550452  | 71. 0.292724607986 |
| 10. 0.054083771862   | 41. 0.17759778337  | 72. 0.294109834871 |
| 11. 0.0554408275134  | 42. 0.179180634697 | 73. 0.294969211718 |
| 12. 0.0560666558728  | 43. 0.179196289577 | 74. 0.298876986909 |
| 13. 0.0654470347397  | 44. 0.185533010734 | 75. 0.300755909729 |
| 14. 0.0655881796613  | 45. 0.193707083299 | 76. 0.30329202611  |
| 15. 0.0665018422804  | 46. 0.195213530703 | 77. 0.306068650093 |
| 16. 0.0707527316056  | 47. 0.196716079975 | 78. 0.307486969116 |
| 17. 0.0723637885836  | 48. 0.19772334849  | 79. 0.307610297856 |
| 18. 0.0876724461208  | 49. 0.209458808058 | 80. 0.317614291457 |
| 19. 0.0982188962512  | 50. 0.209693399276 | 81. 0.319455711734 |
| 20. 0.0984700465771  | 51. 0.210256752327 | 82. 0.332541302971 |
| 21. 0.0986757948281  | 52. 0.220451810247 | 83. 0.335049048183 |
| 22. 0.108491431014   | 53. 0.234645555242 | 84. 0.335113629268 |
| 23. 0.111118033546   | 54. 0.239728045663 | 85. 0.338225252865 |
| 24. 0.111475363648   | 55. 0.240677914509 | 86. 0.338889323835 |
| 25. 0.111949463442   | 56. 0.243438490906 | 87. 0.341523432253 |
| 26. 0.113779477665   | 57. 0.245049282092 | 88. 0.346340470289 |
| 27. 0.113943913759   | 58. 0.246575259377 | 89. 0.351732687087 |
| 28. 0.120462949298   | 59. 0.250605059772 | 90. 0.351965365947 |
| 29. 0.121964018819   | 60. 0.253083571173 | 91. 0.352315775766 |
| 30. 0.123771431857   | 61. 0.25589811758  | 92. 0.352326518658 |

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| 93. 0.352614999039  | 139. 0.495455207379 | 185. 0.639706385696 |
| 94. 0.356954589964  | 140. 0.496078639354 | 186. 0.63986124576  |
| 95. 0.357081951252  | 141. 0.497808869502 | 187. 0.647112879274 |
| 96. 0.366916961749  | 142. 0.502860243132 | 188. 0.652356571657 |
| 97. 0.368480588332  | 143. 0.508819640392 | 189. 0.653509397813 |
| 98. 0.373464893832  | 144. 0.510370300086 | 190. 0.658437552662 |
| 99. 0.383222380322  | 145. 0.51102534623  | 191. 0.661635833472 |
| 100. 0.384331132545 | 146. 0.523433472124 | 192. 0.67287039393  |
| 101. 0.390446108294 | 147. 0.523527534319 | 193. 0.674920646086 |
| 102. 0.391521372808 | 148. 0.529593900296 | 194. 0.675207482491 |
| 103. 0.394628229232 | 149. 0.531427404601 | 195. 0.680917782968 |
| 104. 0.398094854059 | 150. 0.531989021338 | 196. 0.686410783795 |
| 105. 0.398437899469 | 151. 0.53607136765  | 197. 0.686543601285 |
| 106. 0.399748840275 | 152. 0.539173194706 | 198. 0.68719581566  |
| 107. 0.400091319948 | 153. 0.540272664354 | 199. 0.687442077656 |
| 108. 0.404655321703 | 154. 0.542930732843 | 200. 0.690590970621 |
| 109. 0.405733392109 | 155. 0.55233258455  | 201. 0.692804568148 |
| 110. 0.406764368087 | 156. 0.552376290484 | 202. 0.694581429857 |
| 111. 0.407501192663 | 157. 0.55337265047  | 203. 0.697230819096 |
| 112. 0.411612911837 | 158. 0.553555197156 | 204. 0.697323583076 |
| 113. 0.411640885368 | 159. 0.558341525275 | 205. 0.698773541738 |
| 114. 0.414018173619 | 160. 0.561104907104 | 206. 0.7058371503   |
| 115. 0.415322370216 | 161. 0.5642659926   | 207. 0.706394324056 |
| 116. 0.415830012861 | 162. 0.564864760024 | 208. 0.710298607375 |
| 117. 0.417262061596 | 163. 0.565704536418 | 209. 0.710412244099 |
| 118. 0.420558970918 | 164. 0.591232998154 | 210. 0.711549822842 |
| 119. 0.424598126489 | 165. 0.595333283378 | 211. 0.711839051657 |
| 120. 0.428179317893 | 166. 0.595831567796 | 212. 0.717864957894 |
| 121. 0.43089751612  | 167. 0.597011389413 | 213. 0.733173682687 |
| 122. 0.433033568438 | 168. 0.599295576532 | 214. 0.733903084308 |
| 123. 0.436819686412 | 169. 0.60092719586  | 215. 0.735599067752 |
| 124. 0.437361008859 | 170. 0.608418761411 | 216. 0.736396508736 |
| 125. 0.438508125514 | 171. 0.608456342557 | 217. 0.737960656461 |
| 126. 0.439205346572 | 172. 0.608961422149 | 218. 0.738621027962 |
| 127. 0.440620023765 | 173. 0.609272267453 | 219. 0.740446749981 |
| 128. 0.440834224314 | 174. 0.61074080701  | 220. 0.741484159083 |
| 129. 0.441021780966 | 175. 0.612375797562 | 221. 0.742350383668 |
| 130. 0.441043763839 | 176. 0.615266751078 | 222. 0.747378606366 |
| 131. 0.443885528894 | 177. 0.6175044653   | 223. 0.748619809042 |
| 132. 0.451281147038 | 178. 0.619311748129 | 224. 0.750493441814 |
| 133. 0.452417985241 | 179. 0.619476070059 | 225. 0.752926785684 |
| 134. 0.458032877382 | 180. 0.623676862163 | 226. 0.75479346363  |
| 135. 0.462385351535 | 181. 0.624540075749 | 227. 0.756523022904 |
| 136. 0.463001031661 | 182. 0.629089451367 | 228. 0.758799842469 |
| 137. 0.48284433212  | 183. 0.629890390282 | 229. 0.759892003544 |
| 138. 0.493851598781 | 184. 0.635770539254 | 230. 0.761637002389 |

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| 231. 0.768653975871 | 277. 0.897507624753 | 323. 1.03141924014 |
| 232. 0.770061523739 | 278. 0.899284640479 | 324. 1.03223761197 |
| 233. 0.771075379014 | 279. 0.907280710199 | 325. 1.0372183162  |
| 234. 0.773535646461 | 280. 0.915483727559 | 326. 1.0385693429  |
| 235. 0.773665824522 | 281. 0.916103904602 | 327. 1.03976271398 |
| 236. 0.775662724144 | 282. 0.918797321712 | 328. 1.04331569376 |
| 237. 0.776305874655 | 283. 0.923869855461 | 329. 1.04511410933 |
| 238. 0.778177898718 | 284. 0.925502288921 | 330. 1.04620341896 |
| 239. 0.782782888763 | 285. 0.934123478334 | 331. 1.04750458187 |
| 240. 0.78295225083  | 286. 0.935478771798 | 332. 1.05026436123 |
| 241. 0.796157267282 | 287. 0.936376134266 | 333. 1.05571391655 |
| 242. 0.804419802913 | 288. 0.936495918451 | 334. 1.05797559106 |
| 243. 0.805948578555 | 289. 0.938969454204 | 335. 1.06035025593 |
| 244. 0.809249637912 | 290. 0.940721682827 | 336. 1.06568167154 |
| 245. 0.809424180268 | 291. 0.942261259482 | 337. 1.06604137384 |
| 246. 0.814289941545 | 292. 0.945116653853 | 338. 1.06605239606 |
| 247. 0.815192891328 | 293. 0.947664106289 | 339. 1.07180728814 |
| 248. 0.817018350551 | 294. 0.94876306565  | 340. 1.071901948   |
| 249. 0.822936642553 | 295. 0.949582334283 | 341. 1.07228328013 |
| 250. 0.824377804942 | 296. 0.95149078531  | 342. 1.07805604561 |
| 251. 0.825459791103 | 297. 0.953038562418 | 343. 1.0813344785  |
| 252. 0.825603158839 | 298. 0.955878148331 | 344. 1.08174027636 |
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| 255. 0.835976339353 | 301. 0.962734271504 | 347. 1.10243673245 |
| 256. 0.843266529344 | 302. 0.964862522345 | 348. 1.10248511089 |
| 257. 0.846765092482 | 303. 0.966814391957 | 349. 1.10395522044 |
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| 259. 0.85115831131  | 305. 0.968095664398 | 351. 1.10969617995 |
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639. 1.79758698201  
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644. 1.80194633436

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| 645. | 1.80329055011 | 691. | 1.89454233154 | 737. | 1.96932074669 |
| 646. | 1.80944370206 | 692. | 1.89531175701 | 738. | 1.97050241473 |
| 647. | 1.81116875325 | 693. | 1.89964304544 | 739. | 1.97161499236 |
| 648. | 1.812675723   | 694. | 1.9007445851  | 740. | 1.97173029186 |
| 649. | 1.81838710609 | 695. | 1.90110527209 | 741. | 1.97223799437 |
| 650. | 1.82007305563 | 696. | 1.90301914725 | 742. | 1.97427530606 |
| 651. | 1.82061964316 | 697. | 1.90399917637 | 743. | 1.97431874191 |
| 652. | 1.82325218922 | 698. | 1.90569592011 | 744. | 1.97474718888 |
| 653. | 1.8264888356  | 699. | 1.90600241957 | 745. | 1.97651707712 |
| 654. | 1.82743988286 | 700. | 1.90745633517 | 746. | 1.98050062525 |
| 655. | 1.82887231705 | 701. | 1.90957789859 | 747. | 1.98289671884 |
| 656. | 1.83215614095 | 702. | 1.91585241264 | 748. | 1.98448784764 |
| 657. | 1.83579072843 | 703. | 1.9169315477  | 749. | 1.98752264189 |
| 658. | 1.84044367944 | 704. | 1.91904535641 | 750. | 1.98792775206 |
| 659. | 1.84398826668 | 705. | 1.91905490242 | 751. | 1.99132314158 |
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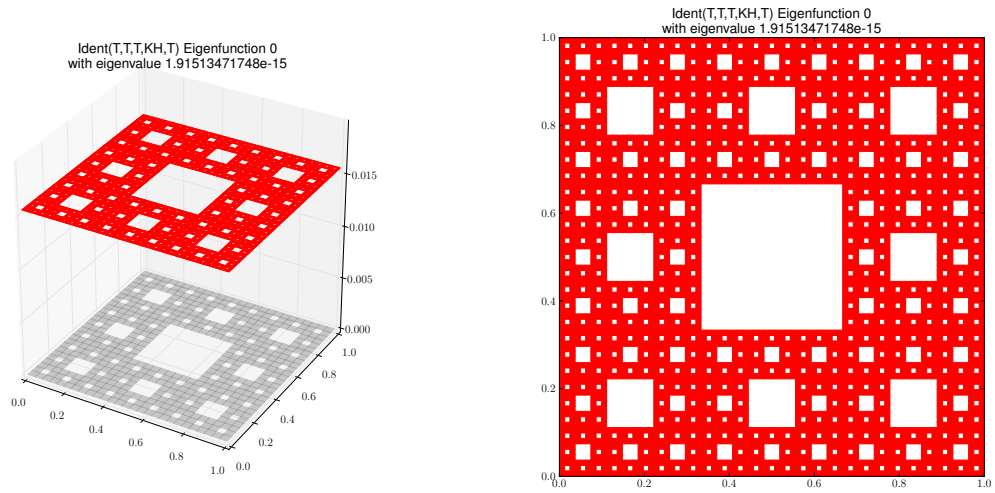
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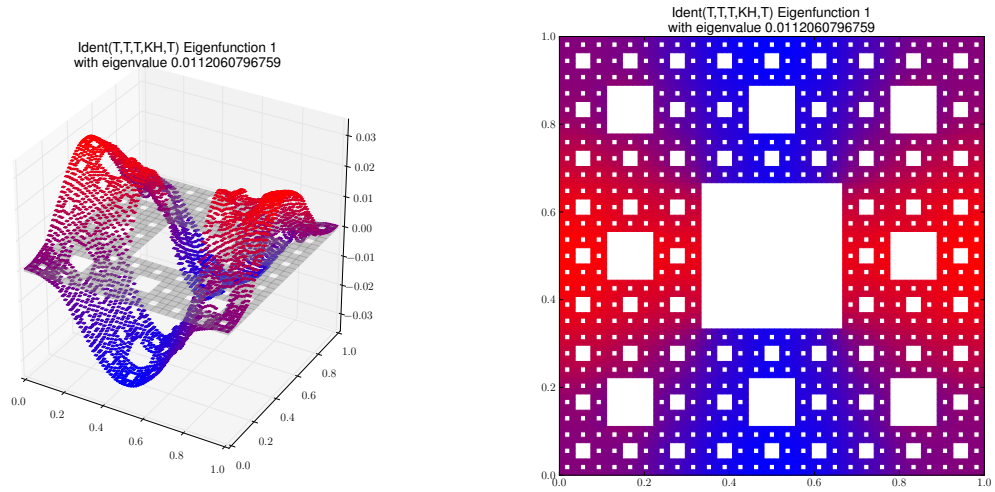
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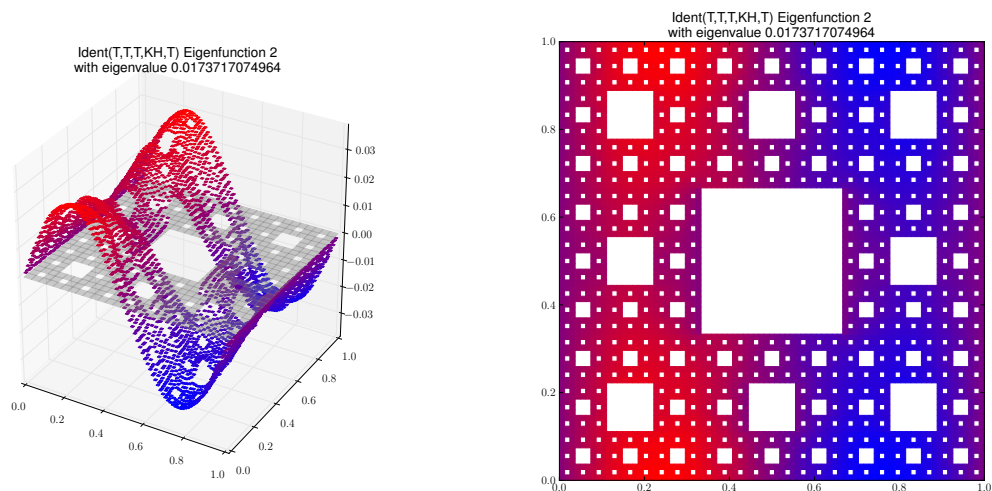
Eigenfunction 0 with eigenvalue  $1.91513471748e-15$



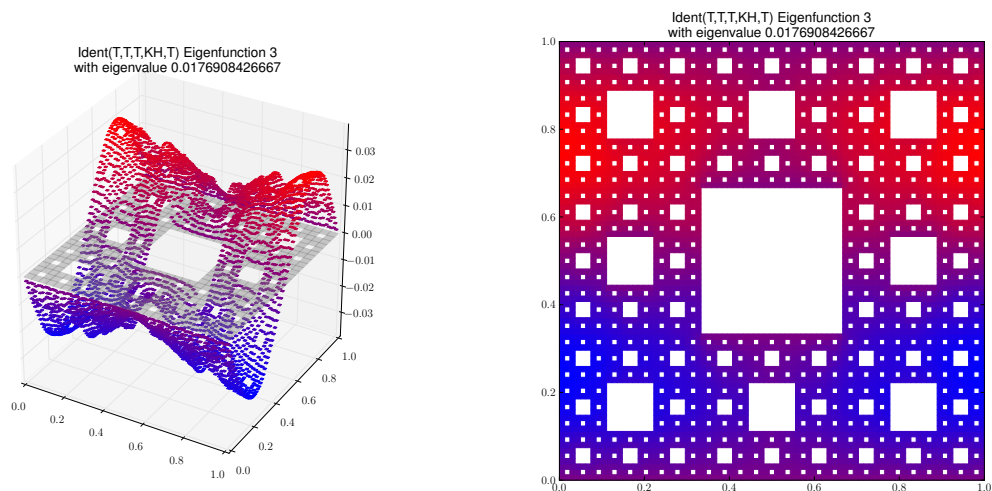
Eigenfunction 1 with eigenvalue  $0.0112060796759$



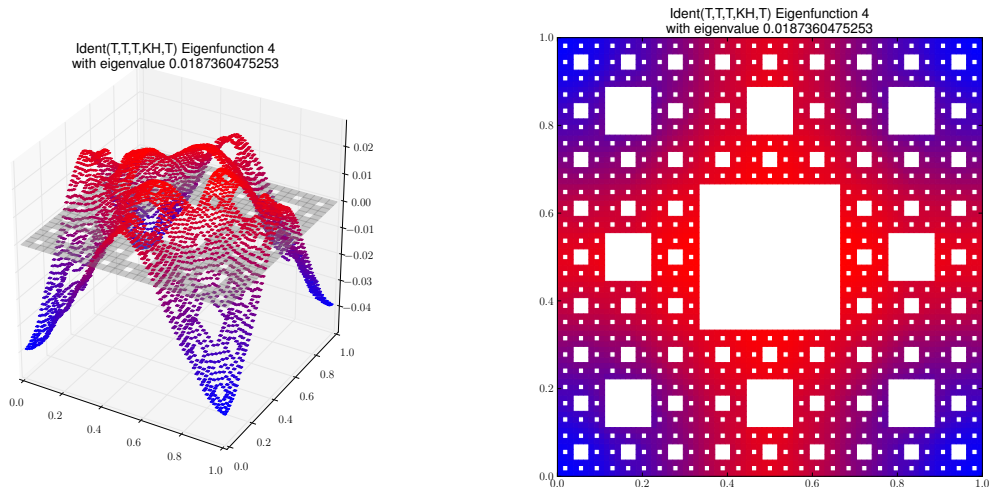
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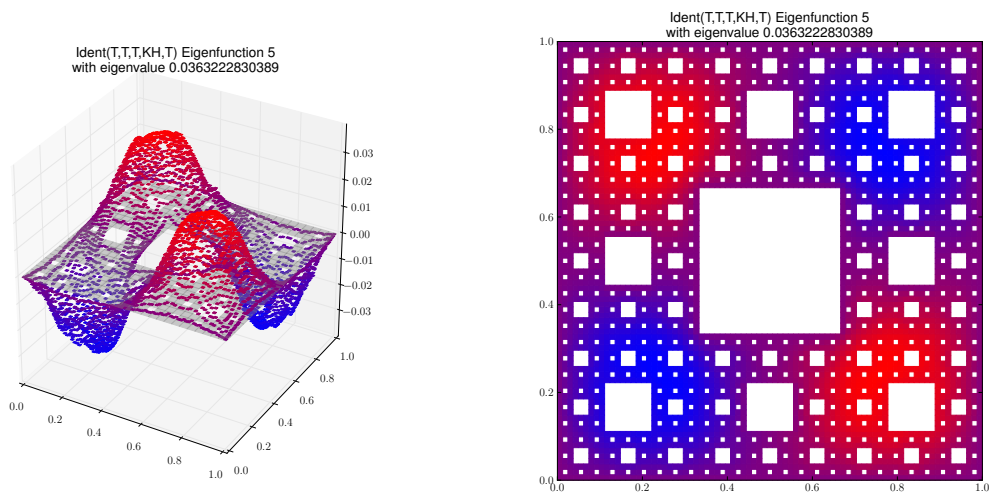
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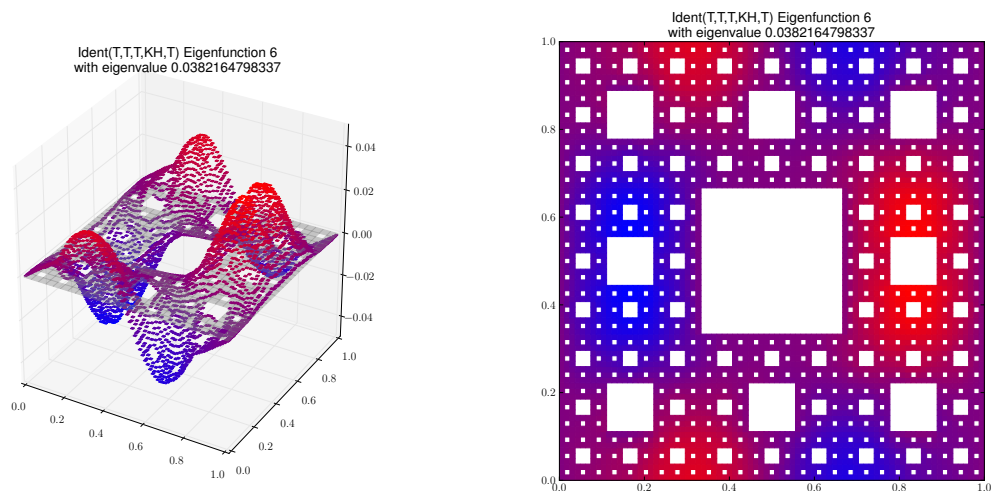
Eigenfunction 4 with eigenvalue 0.0187360475253



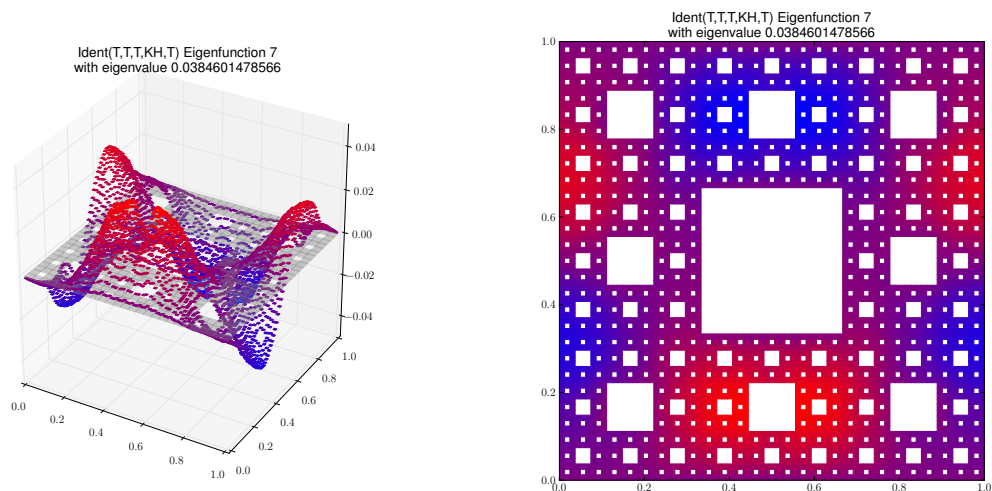
Eigenfunction 5 with eigenvalue 0.0363222830389



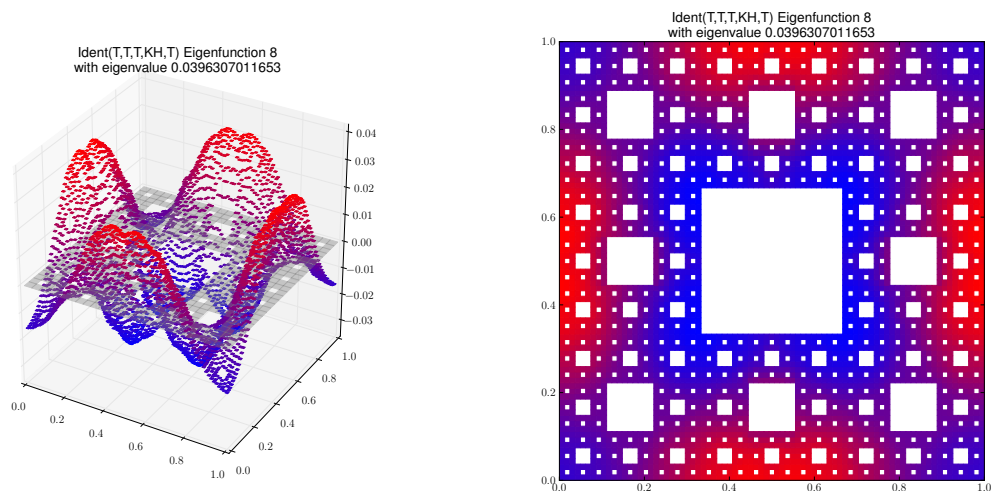
Eigenfunction 6 with eigenvalue 0.0382164798337



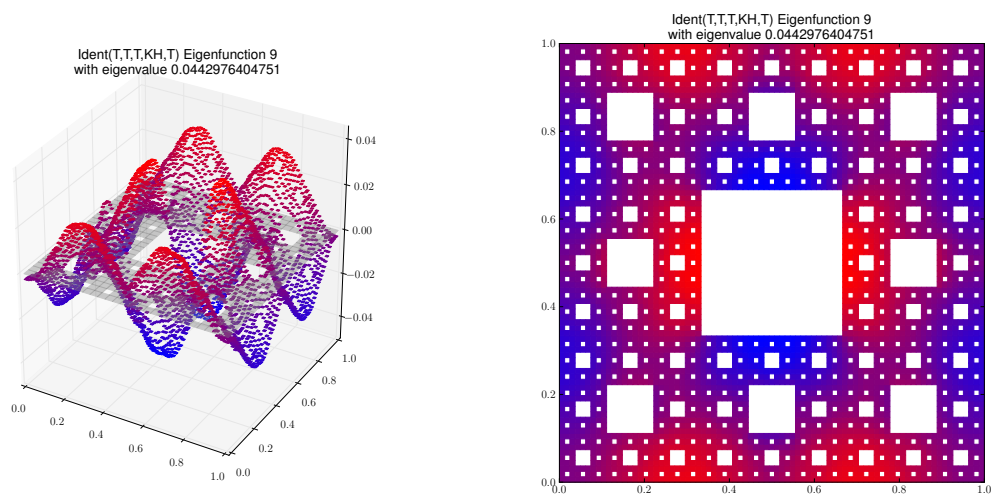
Eigenfunction 7 with eigenvalue 0.0384601478566



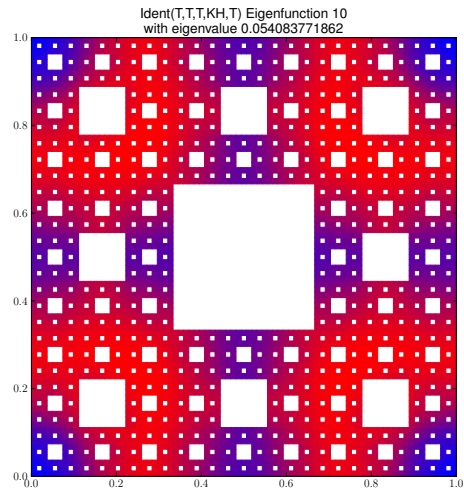
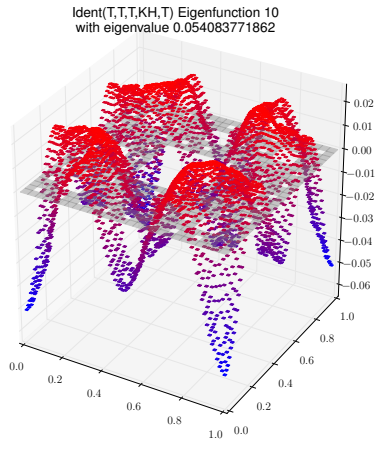
Eigenfunction 8 with eigenvalue 0.0396307011653



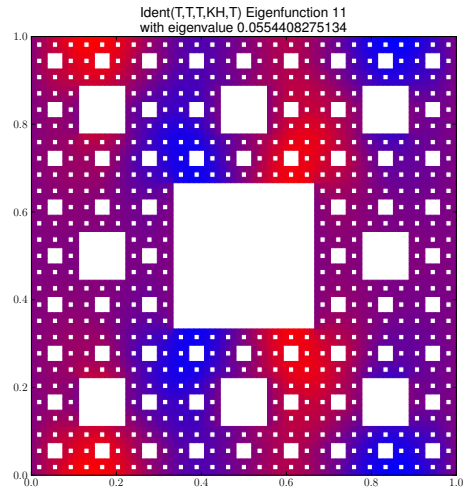
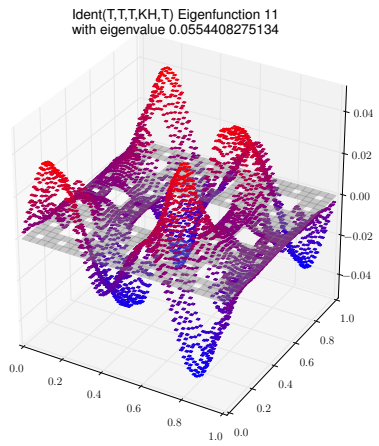
Eigenfunction 9 with eigenvalue 0.0442976404751



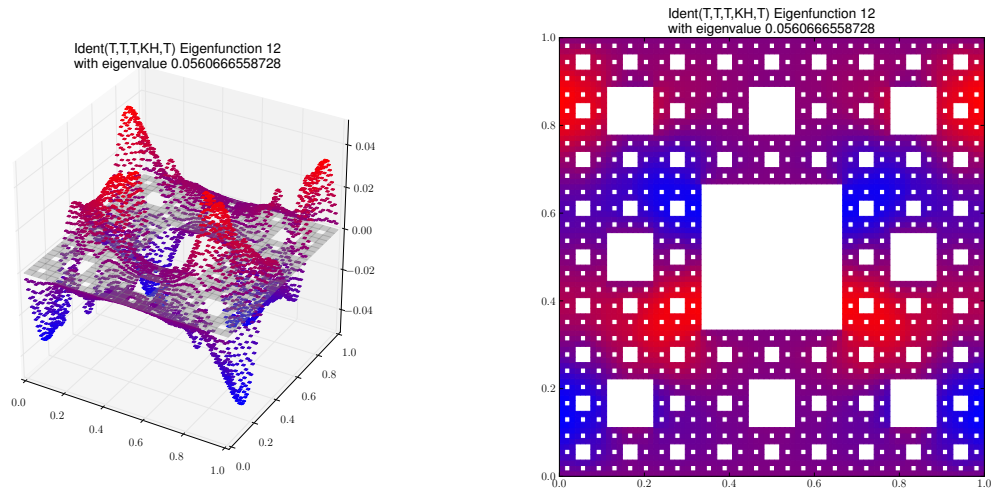
Eigenfunction 10 with eigenvalue 0.054083771862



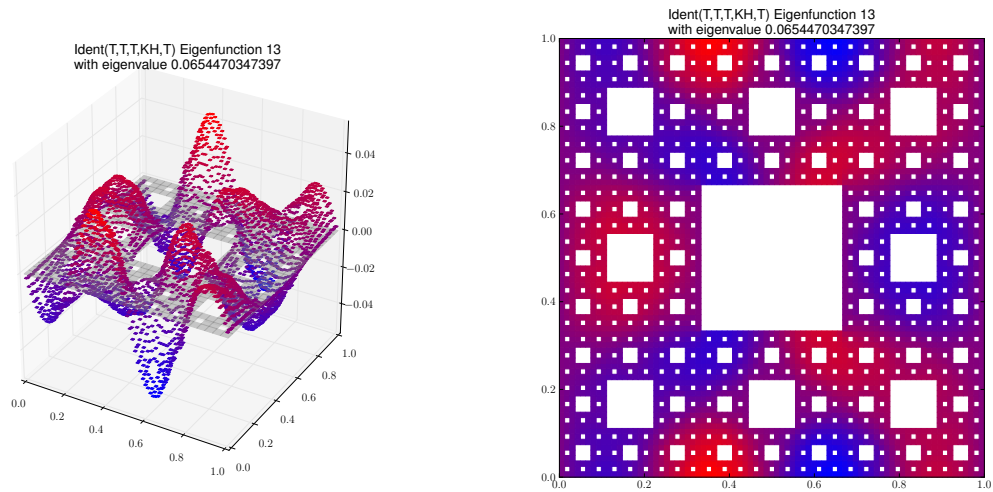
Eigenfunction 11 with eigenvalue 0.0554408275134



Eigenfunction 12 with eigenvalue 0.0560666558728



Eigenfunction 13 with eigenvalue 0.0654470347397



Eigenfunction 14 with eigenvalue 0.0655881796613

