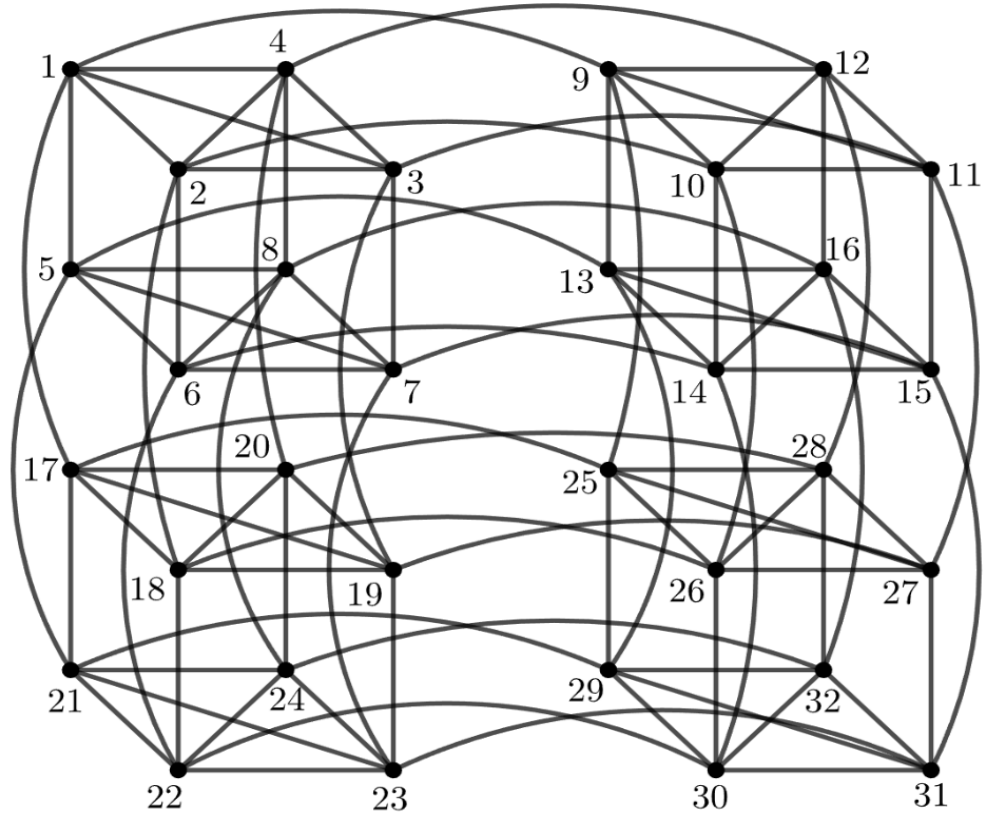


# Enhanced Hypercube of dimension five $Q_{5,2}$



1-fault tolerant metric dimension : 4

1DRW index : 384

Extracted 1-fault tolerant metric bases using extended *BIGS* algorithm

- |                    |                     |                     |
|--------------------|---------------------|---------------------|
| 1. {1, 6, 11, 16}  | 17. {1, 8, 10, 15}  | 33. {1, 12, 14, 27} |
| 2. {1, 6, 11, 20}  | 18. {1, 8, 10, 19}  | 34. {1, 12, 15, 26} |
| 3. {1, 6, 12, 15}  | 19. {1, 8, 11, 14}  | 35. {1, 12, 18, 27} |
| 4. {1, 6, 12, 19}  | 20. {1, 8, 11, 18}  | 36. {1, 12, 19, 26} |
| 5. {1, 6, 15, 24}  | 21. {1, 8, 14, 23}  | 37. {1, 14, 23, 28} |
| 6. {1, 6, 16, 23}  | 22. {1, 8, 15, 22}  | 38. {1, 14, 24, 27} |
| 7. {1, 6, 19, 24}  | 23. {1, 8, 18, 23}  | 39. {1, 15, 22, 28} |
| 8. {1, 6, 20, 23}  | 24. {1, 8, 19, 22}  | 40. {1, 15, 24, 26} |
| 9. {1, 7, 10, 16}  | 25. {1, 10, 15, 28} | 41. {1, 16, 22, 27} |
| 10. {1, 7, 10, 20} | 26. {1, 10, 16, 27} | 42. {1, 16, 23, 26} |
| 11. {1, 7, 12, 14} | 27. {1, 10, 19, 28} | 43. {1, 18, 23, 28} |
| 12. {1, 7, 12, 18} | 28. {1, 10, 20, 27} | 44. {1, 18, 24, 27} |
| 13. {1, 7, 14, 24} | 29. {1, 11, 14, 28} | 45. {1, 19, 22, 28} |
| 14. {1, 7, 16, 22} | 30. {1, 11, 16, 26} | 46. {1, 19, 24, 26} |
| 15. {1, 7, 18, 24} | 31. {1, 11, 18, 28} | 47. {1, 20, 22, 27} |
| 16. {1, 7, 20, 22} | 32. {1, 11, 20, 26} | 48. {1, 20, 23, 26} |

- |                     |                      |                      |
|---------------------|----------------------|----------------------|
| 49. {2, 5, 11, 16}  | 101. {3, 5, 14, 24}  | 153. {4, 6, 9, 15}   |
| 50. {2, 5, 11, 20}  | 102. {3, 5, 16, 22}  | 154. {4, 6, 9, 19}   |
| 51. {2, 5, 12, 15}  | 103. {3, 5, 18, 24}  | 155. {4, 6, 11, 13}  |
| 52. {2, 5, 12, 19}  | 104. {3, 5, 20, 22}  | 156. {4, 6, 11, 17}  |
| 53. {2, 5, 15, 24}  | 105. {3, 6, 9, 16}   | 157. {4, 6, 13, 23}  |
| 54. {2, 5, 16, 23}  | 106. {3, 6, 9, 20}   | 158. {4, 6, 15, 21}  |
| 55. {2, 5, 19, 24}  | 107. {3, 6, 12, 13}  | 159. {4, 6, 17, 23}  |
| 56. {2, 5, 20, 23}  | 108. {3, 6, 12, 17}  | 160. {4, 6, 19, 21}  |
| 57. {2, 7, 9, 16}   | 109. {3, 6, 13, 24}  | 161. {4, 7, 9, 14}   |
| 58. {2, 7, 9, 20}   | 110. {3, 6, 16, 21}  | 162. {4, 7, 9, 18}   |
| 59. {2, 7, 12, 13}  | 111. {3, 6, 17, 24}  | 163. {4, 7, 10, 13}  |
| 60. {2, 7, 12, 17}  | 112. {3, 6, 20, 21}  | 164. {4, 7, 10, 17}  |
| 61. {2, 7, 13, 24}  | 113. {3, 8, 9, 14}   | 165. {4, 7, 13, 22}  |
| 62. {2, 7, 16, 21}  | 114. {3, 8, 9, 18}   | 166. {4, 7, 14, 21}  |
| 63. {2, 7, 17, 24}  | 115. {3, 8, 10, 13}  | 167. {4, 7, 17, 22}  |
| 64. {2, 7, 20, 21}  | 116. {3, 8, 10, 17}  | 168. {4, 7, 18, 21}  |
| 65. {2, 8, 9, 15}   | 117. {3, 8, 13, 22}  | 169. {4, 9, 14, 27}  |
| 66. {2, 8, 9, 19}   | 118. {3, 8, 14, 21}  | 170. {4, 9, 15, 26}  |
| 67. {2, 8, 11, 13}  | 119. {3, 8, 17, 22}  | 171. {4, 9, 18, 27}  |
| 68. {2, 8, 11, 17}  | 120. {3, 8, 18, 21}  | 172. {4, 9, 19, 26}  |
| 69. {2, 8, 13, 23}  | 121. {3, 9, 14, 28}  | 173. {4, 10, 13, 27} |
| 70. {2, 8, 15, 21}  | 122. {3, 9, 16, 26}  | 174. {4, 10, 15, 25} |
| 71. {2, 8, 17, 23}  | 123. {3, 9, 18, 28}  | 175. {4, 10, 17, 27} |
| 72. {2, 8, 19, 21}  | 124. {3, 9, 20, 26}  | 176. {4, 10, 19, 25} |
| 73. {2, 9, 15, 28}  | 125. {3, 10, 13, 28} | 177. {4, 11, 13, 26} |
| 74. {2, 9, 16, 27}  | 126. {3, 10, 16, 25} | 178. {4, 11, 14, 25} |
| 75. {2, 9, 19, 28}  | 127. {3, 10, 17, 28} | 179. {4, 11, 17, 26} |
| 76. {2, 9, 20, 27}  | 128. {3, 10, 20, 25} | 180. {4, 11, 18, 25} |
| 77. {2, 11, 13, 28} | 129. {3, 12, 13, 26} | 181. {4, 13, 22, 27} |
| 78. {2, 11, 16, 25} | 130. {3, 12, 14, 25} | 182. {4, 13, 23, 26} |
| 79. {2, 11, 17, 28} | 131. {3, 12, 17, 26} | 183. {4, 14, 21, 27} |
| 80. {2, 11, 20, 25} | 132. {3, 12, 18, 25} | 184. {4, 14, 23, 25} |
| 81. {2, 12, 13, 27} | 133. {3, 13, 22, 28} | 185. {4, 15, 21, 26} |
| 82. {2, 12, 15, 25} | 134. {3, 13, 24, 26} | 186. {4, 15, 22, 25} |
| 83. {2, 12, 17, 27} | 135. {3, 14, 21, 28} | 187. {4, 17, 22, 27} |
| 84. {2, 12, 19, 25} | 136. {3, 14, 24, 25} | 188. {4, 17, 23, 26} |
| 85. {2, 13, 23, 28} | 137. {3, 16, 21, 26} | 189. {4, 18, 21, 27} |
| 86. {2, 13, 24, 27} | 138. {3, 16, 22, 25} | 190. {4, 18, 23, 25} |
| 87. {2, 15, 21, 28} | 139. {3, 17, 22, 28} | 191. {4, 19, 21, 26} |
| 88. {2, 15, 24, 25} | 140. {3, 17, 24, 26} | 192. {4, 19, 22, 25} |
| 89. {2, 16, 21, 27} | 141. {3, 18, 21, 28} | 193. {5, 10, 15, 32} |
| 90. {2, 16, 23, 25} | 142. {3, 18, 24, 25} | 194. {5, 10, 16, 31} |
| 91. {2, 17, 23, 28} | 143. {3, 20, 21, 26} | 195. {5, 10, 19, 32} |
| 92. {2, 17, 24, 27} | 144. {3, 20, 22, 25} | 196. {5, 10, 20, 31} |
| 93. {2, 19, 21, 28} | 145. {4, 5, 10, 15}  | 197. {5, 11, 14, 32} |
| 94. {2, 19, 24, 25} | 146. {4, 5, 10, 19}  | 198. {5, 11, 16, 30} |
| 95. {2, 20, 21, 27} | 147. {4, 5, 11, 14}  | 199. {5, 11, 18, 32} |
| 96. {2, 20, 23, 25} | 148. {4, 5, 11, 18}  | 200. {5, 11, 20, 30} |
| 97. {3, 5, 10, 16}  | 149. {4, 5, 14, 23}  | 201. {5, 12, 14, 31} |
| 98. {3, 5, 10, 20}  | 150. {4, 5, 15, 22}  | 202. {5, 12, 15, 30} |
| 99. {3, 5, 12, 14}  | 151. {4, 5, 18, 23}  | 203. {5, 12, 18, 31} |
| 100. {3, 5, 12, 18} | 152. {4, 5, 19, 22}  | 204. {5, 12, 19, 30} |

205. {5, 14, 23, 32}	257. {7, 16, 21, 30}	309. {10, 19, 25, 32}
206. {5, 14, 24, 31}	258. {7, 16, 22, 29}	310. {10, 19, 28, 29}
207. {5, 15, 22, 32}	259. {7, 17, 22, 32}	311. {10, 20, 25, 31}
208. {5, 15, 24, 30}	260. {7, 17, 24, 30}	312. {10, 20, 27, 29}
209. {5, 16, 22, 31}	261. {7, 18, 21, 32}	313. {11, 13, 26, 32}
210. {5, 16, 23, 30}	262. {7, 18, 24, 29}	314. {11, 13, 28, 30}
211. {5, 18, 23, 32}	263. {7, 20, 21, 30}	315. {11, 14, 25, 32}
212. {5, 18, 24, 31}	264. {7, 20, 22, 29}	316. {11, 14, 28, 29}
213. {5, 19, 22, 32}	265. {8, 9, 14, 31}	317. {11, 16, 25, 30}
214. {5, 19, 24, 30}	266. {8, 9, 15, 30}	318. {11, 16, 26, 29}
215. {5, 20, 22, 31}	267. {8, 9, 18, 31}	319. {11, 17, 26, 32}
216. {5, 20, 23, 30}	268. {8, 9, 19, 30}	320. {11, 17, 28, 30}
217. {6, 9, 15, 32}	269. {8, 10, 13, 31}	321. {11, 18, 25, 32}
218. {6, 9, 16, 31}	270. {8, 10, 15, 29}	322. {11, 18, 28, 29}
219. {6, 9, 19, 32}	271. {8, 10, 17, 31}	323. {11, 20, 25, 30}
220. {6, 9, 20, 31}	272. {8, 10, 19, 29}	324. {11, 20, 26, 29}
221. {6, 11, 13, 32}	273. {8, 11, 13, 30}	325. {12, 13, 26, 31}
222. {6, 11, 16, 29}	274. {8, 11, 14, 29}	326. {12, 13, 27, 30}
223. {6, 11, 17, 32}	275. {8, 11, 17, 30}	327. {12, 14, 25, 31}
224. {6, 11, 20, 29}	276. {8, 11, 18, 29}	328. {12, 14, 27, 29}
225. {6, 12, 13, 31}	277. {8, 13, 22, 31}	329. {12, 15, 25, 30}
226. {6, 12, 15, 29}	278. {8, 13, 23, 30}	330. {12, 15, 26, 29}
227. {6, 12, 17, 31}	279. {8, 14, 21, 31}	331. {12, 17, 26, 31}
228. {6, 12, 19, 29}	280. {8, 14, 23, 29}	332. {12, 17, 27, 30}
229. {6, 13, 23, 32}	281. {8, 15, 21, 30}	333. {12, 18, 25, 31}
230. {6, 13, 24, 31}	282. {8, 15, 22, 29}	334. {12, 18, 27, 29}
231. {6, 15, 21, 32}	283. {8, 17, 22, 31}	335. {12, 19, 25, 30}
232. {6, 15, 24, 29}	284. {8, 17, 23, 30}	336. {12, 19, 26, 29}
233. {6, 16, 21, 31}	285. {8, 18, 21, 31}	337. {13, 22, 27, 32}
234. {6, 16, 23, 29}	286. {8, 18, 23, 29}	338. {13, 22, 28, 31}
235. {6, 17, 23, 32}	287. {8, 19, 21, 30}	339. {13, 23, 26, 32}
236. {6, 17, 24, 31}	288. {8, 19, 22, 29}	340. {13, 23, 28, 30}
237. {6, 19, 21, 32}	289. {9, 14, 27, 32}	341. {13, 24, 26, 31}
238. {6, 19, 24, 29}	290. {9, 14, 28, 31}	342. {13, 24, 27, 30}
239. {6, 20, 21, 31}	291. {9, 15, 26, 32}	343. {14, 21, 27, 32}
240. {6, 20, 23, 29}	292. {9, 15, 28, 30}	344. {14, 21, 28, 31}
241. {7, 9, 14, 32}	293. {9, 16, 26, 31}	345. {14, 23, 25, 32}
242. {7, 9, 16, 30}	294. {9, 16, 27, 30}	346. {14, 23, 28, 29}
243. {7, 9, 18, 32}	295. {9, 18, 27, 32}	347. {14, 24, 25, 31}
244. {7, 9, 20, 30}	296. {9, 18, 28, 31}	348. {14, 24, 27, 29}
245. {7, 10, 13, 32}	297. {9, 19, 26, 32}	349. {15, 21, 26, 32}
246. {7, 10, 16, 29}	298. {9, 19, 28, 30}	350. {15, 21, 28, 30}
247. {7, 10, 17, 32}	299. {9, 20, 26, 31}	351. {15, 22, 25, 32}
248. {7, 10, 20, 29}	300. {9, 20, 27, 30}	352. {15, 22, 28, 29}
249. {7, 12, 13, 30}	301. {10, 13, 27, 32}	353. {15, 24, 25, 30}
250. {7, 12, 14, 29}	302. {10, 13, 28, 31}	354. {15, 24, 26, 29}
251. {7, 12, 17, 30}	303. {10, 15, 25, 32}	355. {16, 21, 26, 31}
252. {7, 12, 18, 29}	304. {10, 15, 28, 29}	356. {16, 21, 27, 30}
253. {7, 13, 22, 32}	305. {10, 16, 25, 31}	357. {16, 22, 25, 31}
254. {7, 13, 24, 30}	306. {10, 16, 27, 29}	358. {16, 22, 27, 29}
255. {7, 14, 21, 32}	307. {10, 17, 27, 32}	359. {16, 23, 25, 30}
256. {7, 14, 24, 29}	308. {10, 17, 28, 31}	360. {16, 23, 26, 29}

361. {17, 22, 27, 32}  
362. {17, 22, 28, 31}  
363. {17, 23, 26, 32}  
364. {17, 23, 28, 30}  
365. {17, 24, 26, 31}  
366. {17, 24, 27, 30}  
367. {18, 21, 27, 32}  
368. {18, 21, 28, 31}  
369. {18, 23, 25, 32}  
370. {18, 23, 28, 29}  
371. {18, 24, 25, 31}  
372. {18, 24, 27, 29}  
373. {19, 21, 26, 32}  
374. {19, 21, 28, 30}  
375. {19, 22, 25, 32}  
376. {19, 22, 28, 29}  
377. {19, 24, 25, 30}  
378. {19, 24, 26, 29}  
379. {20, 21, 26, 31}  
380. {20, 21, 27, 30}  
381. {20, 22, 25, 31}  
382. {20, 22, 27, 29}  
383. {20, 23, 25, 30}  
384. {20, 23, 26, 29}