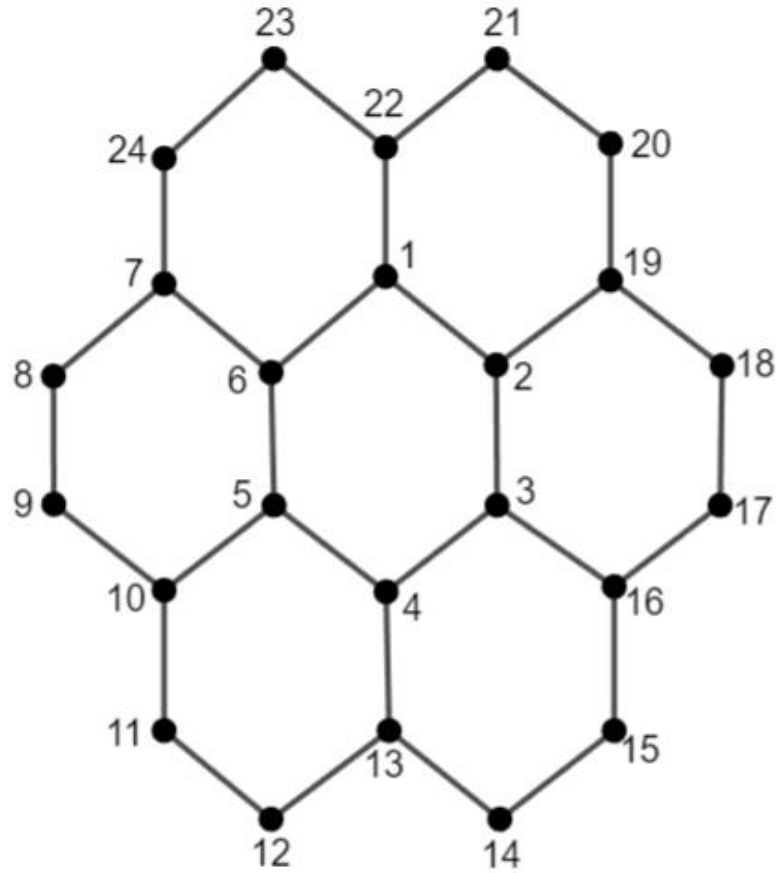


Honeycomb network of dimension two $HC(2)$



Metric dimension - 3

BIGS Index – 442

This part of the research work is presented in the International Conference on Data Engineering and Communication Technology (ICDECT-2024) (Visit: <https://icdect.com/>)

Extracted Metric Bases using BIGS algorithm

- | | | |
|----------------|-----------------|-----------------|
| 1. {1, 8, 14} | 8. {1, 11, 18} | 15. {1, 15, 20} |
| 2. {1, 8, 15} | 9. {1, 11, 23} | 16. {1, 15, 21} |
| 3. {1, 8, 21} | 10. {1, 11, 24} | 17. {1, 18, 23} |
| 4. {1, 9, 14} | 11. {1, 12, 17} | 18. {2, 8, 14} |
| 5. {1, 9, 15} | 12. {1, 12, 18} | 19. {2, 8, 15} |
| 6. {1, 9, 17} | 13. {1, 12, 20} | 20. {2, 8, 20} |
| 7. {1, 11, 17} | 14. {1, 14, 24} | 21. {2, 8, 21} |

22. {2, 9, 14}	66. {4, 17, 24}	110. {7, 10, 21}
23. {2, 9, 15}	67. {4, 18, 23}	111. {7, 11, 14}
24. {2, 9, 17}	68. {4, 18, 24}	112. {7, 11, 15}
25. {2, 11, 21}	69. {5, 8, 18}	113. {7, 11, 16}
26. {2, 11, 23}	70. {5, 8, 21}	114. {7, 11, 17}
27. {2, 11, 24}	71. {5, 9, 14}	115. {7, 11, 18}
28. {2, 12, 17}	72. {5, 9, 21}	116. {7, 11, 21}
29. {2, 12, 18}	73. {5, 11, 17}	117. {7, 11, 22}
30. {2, 12, 23}	74. {5, 11, 24}	118. {7, 12, 14}
31. {2, 12, 24}	75. {5, 12, 17}	119. {7, 12, 15}
32. {2, 14, 24}	76. {5, 12, 20}	120. {7, 12, 16}
33. {2, 15, 20}	77. {5, 14, 20}	121. {7, 12, 17}
34. {2, 18, 23}	78. {5, 14, 21}	122. {7, 12, 18}
35. {3, 8, 18}	79. {5, 15, 20}	123. {7, 12, 20}
36. {3, 8, 20}	80. {5, 15, 21}	124. {7, 14, 20}
37. {3, 8, 21}	81. {5, 15, 23}	125. {7, 14, 21}
38. {3, 9, 14}	82. {5, 17, 23}	126. {7, 14, 22}
39. {3, 9, 15}	83. {5, 17, 24}	127. {7, 14, 23}
40. {3, 9, 20}	84. {5, 18, 23}	128. {7, 15, 20}
41. {3, 9, 21}	85. {5, 18, 24}	129. {7, 15, 21}
42. {3, 11, 21}	86. {6, 8, 14}	130. {7, 15, 22}
43. {3, 11, 23}	87. {6, 8, 21}	131. {7, 15, 23}
44. {3, 11, 24}	88. {6, 9, 14}	132. {7, 16, 20}
45. {3, 12, 17}	89. {6, 9, 17}	133. {7, 16, 21}
46. {3, 12, 23}	90. {6, 11, 17}	134. {7, 17, 20}
47. {3, 12, 24}	91. {6, 11, 18}	135. {7, 17, 21}
48. {3, 14, 24}	92. {6, 11, 24}	136. {7, 18, 20}
49. {3, 15, 20}	93. {6, 12, 17}	137. {7, 18, 21}
50. {3, 17, 23}	94. {6, 12, 18}	138. {7, 18, 22}
51. {3, 18, 23}	95. {6, 12, 20}	139. {7, 18, 23}
52. {4, 8, 18}	96. {6, 14, 20}	140. {7, 18, 24}
53. {4, 8, 20}	97. {6, 14, 21}	141. {8, 9, 17}
54. {4, 8, 21}	98. {6, 15, 20}	142. {8, 9, 18}
55. {4, 9, 14}	99. {6, 15, 21}	143. {8, 10, 17}
56. {4, 9, 20}	100. {6, 15, 23}	144. {8, 10, 18}
57. {4, 9, 21}	101. {6, 18, 23}	145. {8, 10, 21}
58. {4, 11, 21}	102. {6, 18, 24}	146. {8, 11, 14}
59. {4, 11, 24}	103. {7, 8, 14}	147. {8, 11, 15}
60. {4, 12, 17}	104. {7, 9, 14}	148. {8, 11, 16}
61. {4, 12, 24}	105. {7, 9, 17}	149. {8, 11, 17}
62. {4, 14, 20}	106. {7, 9, 18}	150. {8, 11, 18}
63. {4, 15, 20}	107. {7, 10, 14}	151. {8, 11, 21}
64. {4, 15, 23}	108. {7, 10, 17}	152. {8, 11, 22}
65. {4, 17, 23}	109. {7, 10, 18}	153. {8, 11, 23}

154.	{8, 11, 24}	198.	{8, 19, 21}	242.	{9, 15, 18}
155.	{8, 12, 14}	199.	{8, 19, 22}	243.	{9, 15, 19}
156.	{8, 12, 15}	200.	{8, 19, 23}	244.	{9, 15, 20}
157.	{8, 12, 16}	201.	{8, 19, 24}	245.	{9, 15, 21}
158.	{8, 12, 17}	202.	{8, 20, 23}	246.	{9, 15, 22}
159.	{8, 12, 18}	203.	{8, 20, 24}	247.	{9, 15, 23}
160.	{8, 12, 20}	204.	{8, 21, 23}	248.	{9, 16, 18}
161.	{8, 12, 21}	205.	{8, 21, 24}	249.	{9, 16, 19}
162.	{8, 12, 22}	206.	{9, 10, 21}	250.	{9, 16, 20}
163.	{8, 12, 23}	207.	{9, 11, 14}	251.	{9, 16, 21}
164.	{8, 12, 24}	208.	{9, 11, 15}	252.	{9, 17, 18}
165.	{8, 13, 18}	209.	{9, 11, 16}	253.	{9, 17, 19}
166.	{8, 13, 20}	210.	{9, 11, 17}	254.	{9, 17, 20}
167.	{8, 13, 21}	211.	{9, 11, 21}	255.	{9, 17, 21}
168.	{8, 13, 22}	212.	{9, 11, 22}	256.	{9, 17, 22}
169.	{8, 13, 23}	213.	{9, 11, 23}	257.	{9, 17, 23}
170.	{8, 13, 24}	214.	{9, 11, 24}	258.	{9, 17, 24}
171.	{8, 14, 18}	215.	{9, 12, 14}	259.	{9, 18, 23}
172.	{8, 14, 19}	216.	{9, 12, 15}	260.	{9, 18, 24}
173.	{8, 14, 20}	217.	{9, 12, 16}	261.	{9, 19, 23}
174.	{8, 14, 21}	218.	{9, 12, 17}	262.	{9, 19, 24}
175.	{8, 14, 22}	219.	{9, 12, 20}	263.	{9, 20, 23}
176.	{8, 14, 23}	220.	{9, 12, 21}	264.	{9, 20, 24}
177.	{8, 14, 24}	221.	{9, 12, 22}	265.	{9, 21, 23}
178.	{8, 15, 18}	222.	{9, 12, 23}	266.	{9, 21, 24}
179.	{8, 15, 19}	223.	{9, 12, 24}	267.	{10, 11, 17}
180.	{8, 15, 20}	224.	{9, 13, 16}	268.	{10, 12, 17}
181.	{8, 15, 21}	225.	{9, 13, 17}	269.	{10, 12, 20}
182.	{8, 15, 22}	226.	{9, 13, 20}	270.	{10, 12, 21}
183.	{8, 15, 23}	227.	{9, 13, 21}	271.	{10, 13, 17}
184.	{8, 16, 18}	228.	{9, 13, 22}	272.	{10, 13, 20}
185.	{8, 16, 19}	229.	{9, 13, 23}	273.	{10, 13, 21}
186.	{8, 16, 20}	230.	{9, 13, 24}	274.	{10, 13, 24}
187.	{8, 16, 21}	231.	{9, 14, 16}	275.	{10, 14, 17}
188.	{8, 17, 18}	232.	{9, 14, 17}	276.	{10, 14, 18}
189.	{8, 17, 19}	233.	{9, 14, 18}	277.	{10, 14, 19}
190.	{8, 17, 20}	234.	{9, 14, 19}	278.	{10, 14, 20}
191.	{8, 17, 21}	235.	{9, 14, 20}	279.	{10, 14, 21}
192.	{8, 18, 20}	236.	{9, 14, 21}	280.	{10, 14, 24}
193.	{8, 18, 21}	237.	{9, 14, 22}	281.	{10, 15, 17}
194.	{8, 18, 22}	238.	{9, 14, 23}	282.	{10, 15, 18}
195.	{8, 18, 23}	239.	{9, 14, 24}	283.	{10, 15, 19}
196.	{8, 18, 24}	240.	{9, 15, 16}	284.	{10, 15, 20}
197.	{8, 19, 20}	241.	{9, 15, 17}	285.	{10, 15, 21}

286.	{10, 15, 23}	330.	{11, 20, 21}	374.	{13, 14, 20}
287.	{10, 17, 23}	331.	{11, 20, 22}	375.	{13, 15, 20}
288.	{10, 17, 24}	332.	{11, 20, 23}	376.	{13, 15, 23}
289.	{10, 18, 23}	333.	{11, 20, 24}	377.	{13, 15, 24}
290.	{10, 18, 24}	334.	{11, 21, 23}	378.	{13, 16, 20}
291.	{10, 19, 23}	335.	{11, 21, 24}	379.	{13, 16, 23}
292.	{10, 19, 24}	336.	{11, 22, 23}	380.	{13, 16, 24}
293.	{10, 20, 23}	337.	{11, 22, 24}	381.	{13, 17, 20}
294.	{10, 20, 24}	338.	{12, 13, 24}	382.	{13, 17, 21}
295.	{10, 21, 23}	339.	{12, 14, 17}	383.	{13, 17, 22}
296.	{10, 21, 24}	340.	{12, 14, 18}	384.	{13, 17, 23}
297.	{11, 12, 20}	341.	{12, 14, 19}	385.	{13, 17, 24}
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299.	{11, 13, 20}	343.	{12, 14, 24}	387.	{13, 18, 21}
300.	{11, 13, 21}	344.	{12, 15, 17}	388.	{13, 18, 22}
301.	{11, 13, 24}	345.	{12, 15, 18}	389.	{13, 18, 23}
302.	{11, 14, 17}	346.	{12, 15, 19}	390.	{13, 18, 24}
303.	{11, 14, 18}	347.	{12, 15, 20}	391.	{14, 15, 23}
304.	{11, 14, 19}	348.	{12, 15, 23}	392.	{14, 15, 24}
305.	{11, 14, 20}	349.	{12, 15, 24}	393.	{14, 16, 23}
306.	{11, 14, 21}	350.	{12, 16, 19}	394.	{14, 16, 24}
307.	{11, 14, 24}	351.	{12, 16, 20}	395.	{14, 17, 20}
308.	{11, 15, 17}	352.	{12, 16, 23}	396.	{14, 17, 21}
309.	{11, 15, 18}	353.	{12, 16, 24}	397.	{14, 17, 22}
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311.	{11, 15, 20}	355.	{12, 17, 20}	399.	{14, 17, 24}
312.	{11, 15, 21}	356.	{12, 17, 21}	400.	{14, 18, 20}
313.	{11, 15, 23}	357.	{12, 17, 22}	401.	{14, 18, 21}
314.	{11, 15, 24}	358.	{12, 17, 23}	402.	{14, 18, 22}
315.	{11, 16, 21}	359.	{12, 17, 24}	403.	{14, 18, 23}
316.	{11, 16, 23}	360.	{12, 18, 19}	404.	{14, 18, 24}
317.	{11, 16, 24}	361.	{12, 18, 20}	405.	{14, 19, 24}
318.	{11, 17, 21}	362.	{12, 18, 21}	406.	{14, 20, 24}
319.	{11, 17, 22}	363.	{12, 18, 22}	407.	{14, 21, 24}
320.	{11, 17, 23}	364.	{12, 18, 23}	408.	{14, 22, 24}
321.	{11, 17, 24}	365.	{12, 18, 24}	409.	{14, 23, 24}
322.	{11, 18, 21}	366.	{12, 19, 21}	410.	{15, 17, 20}
323.	{11, 18, 22}	367.	{12, 19, 22}	411.	{15, 17, 21}
324.	{11, 18, 23}	368.	{12, 19, 23}	412.	{15, 17, 22}
325.	{11, 18, 24}	369.	{12, 19, 24}	413.	{15, 17, 23}
326.	{11, 19, 21}	370.	{12, 20, 21}	414.	{15, 18, 20}
327.	{11, 19, 22}	371.	{12, 20, 22}	415.	{15, 18, 21}
328.	{11, 19, 23}	372.	{12, 20, 23}	416.	{15, 18, 22}
329.	{11, 19, 24}	373.	{12, 20, 24}	417.	{15, 18, 23}

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