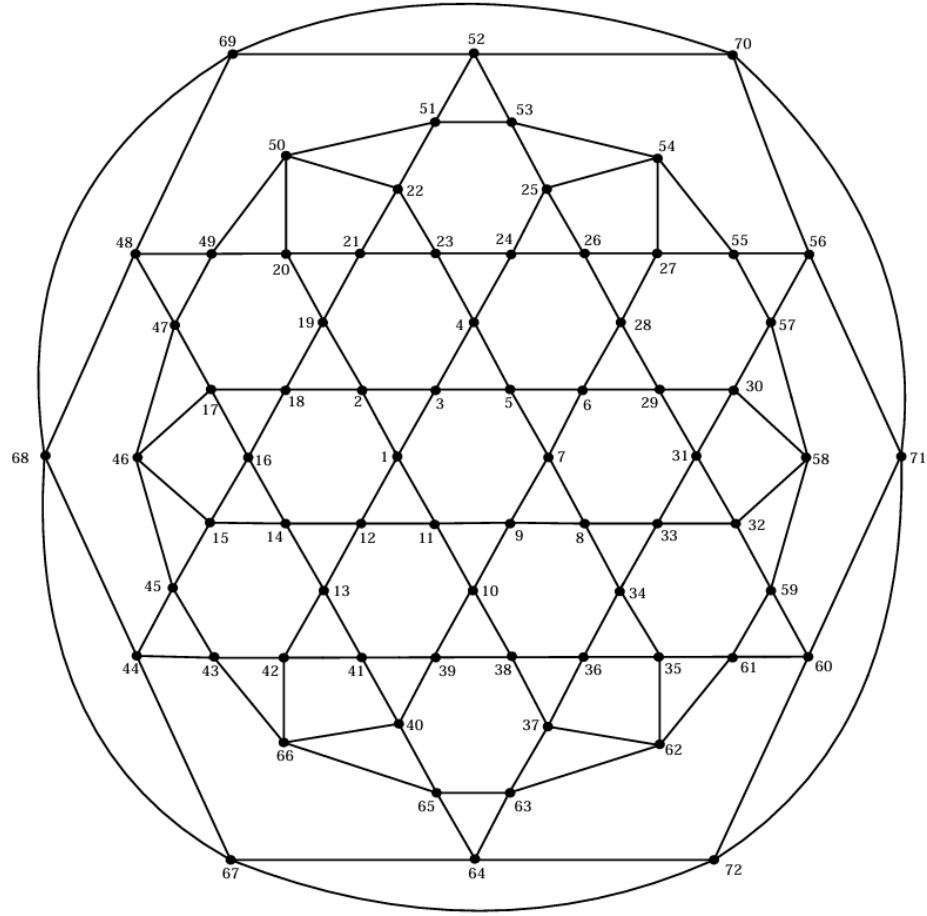


# Double Oxide network of dimension two $DOX(2)$



Metric dimension: 3

BIGS index: 624

Extracted Metric Bases using *BIGS* algorithm

- |                 |                 |                 |
|-----------------|-----------------|-----------------|
| 1. {1, 15, 32}  | 12. {3, 31, 50} | 23. {6, 22, 58} |
| 2. {1, 17, 30}  | 13. {3, 41, 50} | 24. {6, 35, 54} |
| 3. {1, 25, 46}  | 14. {3, 42, 50} | 25. {7, 15, 32} |
| 4. {1, 26, 46}  | 15. {4, 17, 54} | 26. {7, 17, 30} |
| 5. {1, 36, 46}  | 16. {4, 30, 50} | 27. {7, 21, 58} |
| 6. {1, 37, 46}  | 17. {5, 16, 54} | 28. {7, 22, 58} |
| 7. {2, 25, 46}  | 18. {5, 17, 54} | 29. {7, 40, 58} |
| 8. {2, 42, 50}  | 19. {5, 25, 42} | 30. {7, 41, 58} |
| 9. {3, 20, 37}  | 20. {5, 27, 40} | 31. {8, 27, 62} |
| 10. {3, 22, 35} | 21. {5, 35, 54} | 32. {8, 40, 58} |
| 11. {3, 30, 50} | 22. {5, 36, 54} | 33. {9, 15, 62} |

34. {9, 16, 62}	77. {13, 29, 37}	120. {14, 50, 63}
35. {9, 20, 37}	78. {13, 29, 50}	121. {14, 50, 65}
36. {9, 22, 35}	79. {13, 29, 62}	122. {14, 50, 66}
37. {9, 26, 62}	80. {13, 31, 62}	123. {15, 21, 32}
38. {9, 27, 62}	81. {13, 31, 63}	124. {15, 23, 32}
39. {10, 15, 62}	82. {13, 43, 53}	125. {15, 23, 38}
40. {10, 32, 66}	83. {13, 46, 62}	126. {15, 23, 39}
41. {11, 20, 66}	84. {13, 47, 62}	127. {15, 24, 32}
42. {11, 21, 66}	85. {13, 49, 62}	128. {15, 24, 38}
43. {11, 25, 42}	86. {14, 20, 28}	129. {15, 24, 39}
44. {11, 27, 40}	87. {14, 20, 29}	130. {15, 26, 32}
45. {11, 31, 66}	88. {14, 20, 37}	131. {15, 32, 36}
46. {11, 32, 66}	89. {14, 21, 28}	132. {15, 32, 38}
47. {12, 20, 66}	90. {14, 21, 29}	133. {15, 32, 39}
48. {12, 37, 46}	91. {14, 22, 28}	134. {15, 32, 41}
49. {13, 19, 29}	92. {14, 22, 29}	135. {15, 32, 50}
50. {13, 19, 31}	93. {14, 22, 35}	136. {15, 32, 51}
51. {13, 19, 33}	94. {14, 23, 33}	137. {15, 32, 53}
52. {13, 20, 28}	95. {14, 23, 34}	138. {15, 32, 54}
53. {13, 20, 29}	96. {14, 24, 33}	139. {15, 32, 62}
54. {13, 20, 37}	97. {14, 24, 34}	140. {15, 32, 63}
55. {13, 21, 28}	98. {14, 24, 38}	141. {15, 32, 65}
56. {13, 21, 29}	99. {14, 26, 38}	142. {15, 32, 66}
57. {13, 22, 28}	100. {14, 26, 49}	143. {15, 32, 68}
58. {13, 22, 29}	101. {14, 26, 50}	144. {15, 32, 71}
59. {13, 22, 35}	102. {14, 28, 34}	145. {15, 33, 59}
60. {13, 23, 29}	103. {14, 28, 35}	146. {15, 36, 64}
61. {13, 23, 33}	104. {14, 28, 36}	147. {15, 36, 72}
62. {13, 23, 34}	105. {14, 28, 37}	148. {15, 51, 63}
63. {13, 24, 33}	106. {14, 28, 38}	149. {15, 51, 65}
64. {13, 24, 34}	107. {14, 28, 50}	150. {15, 53, 63}
65. {13, 24, 43}	108. {14, 28, 62}	151. {15, 53, 65}
66. {13, 24, 53}	109. {14, 29, 35}	152. {16, 20, 37}
67. {13, 25, 43}	110. {14, 29, 36}	153. {16, 22, 35}
68. {13, 26, 49}	111. {14, 29, 37}	154. {16, 23, 38}
69. {13, 26, 50}	112. {14, 29, 50}	155. {16, 23, 39}
70. {13, 28, 35}	113. {14, 29, 62}	156. {16, 24, 38}
71. {13, 28, 36}	114. {14, 31, 62}	157. {16, 24, 39}
72. {13, 28, 37}	115. {14, 31, 63}	158. {16, 25, 42}
73. {13, 28, 50}	116. {14, 32, 45}	159. {16, 25, 48}
74. {13, 28, 62}	117. {14, 33, 45}	160. {16, 25, 68}
75. {13, 29, 35}	118. {14, 33, 59}	161. {16, 26, 36}
76. {13, 29, 36}	119. {14, 45, 59}	162. {16, 26, 49}

163.	{16, 26, 50}	206.	{17, 30, 50}	249.	{18, 34, 54}
164.	{16, 26, 51}	207.	{17, 30, 51}	250.	{18, 34, 66}
165.	{16, 27, 40}	208.	{17, 30, 53}	251.	{18, 36, 43}
166.	{16, 28, 34}	209.	{17, 30, 54}	252.	{18, 36, 66}
167.	{16, 28, 50}	210.	{17, 30, 62}	253.	{18, 47, 57}
168.	{16, 28, 51}	211.	{17, 30, 63}	254.	{18, 50, 66}
169.	{16, 29, 50}	212.	{17, 30, 65}	255.	{18, 51, 66}
170.	{16, 29, 51}	213.	{17, 30, 66}	256.	{18, 53, 66}
171.	{16, 33, 65}	214.	{17, 30, 68}	257.	{19, 25, 33}
172.	{16, 33, 66}	215.	{17, 30, 71}	258.	{19, 25, 34}
173.	{16, 34, 65}	216.	{17, 51, 63}	259.	{19, 25, 42}
174.	{16, 34, 66}	217.	{17, 51, 65}	260.	{19, 26, 33}
175.	{16, 36, 43}	218.	{17, 53, 63}	261.	{19, 26, 34}
176.	{16, 36, 65}	219.	{17, 53, 65}	262.	{19, 27, 33}
177.	{16, 36, 66}	220.	{18, 24, 34}	263.	{19, 27, 34}
178.	{16, 37, 44}	221.	{18, 24, 36}	264.	{19, 27, 40}
179.	{16, 37, 68}	222.	{18, 24, 38}	265.	{19, 28, 38}
180.	{16, 50, 63}	223.	{18, 25, 33}	266.	{19, 28, 39}
181.	{16, 50, 65}	224.	{18, 25, 34}	267.	{19, 29, 38}
182.	{16, 50, 66}	225.	{18, 25, 42}	268.	{19, 29, 39}
183.	{16, 51, 63}	226.	{18, 26, 33}	269.	{19, 31, 53}
184.	{16, 51, 65}	227.	{18, 26, 34}	270.	{19, 31, 54}
185.	{16, 51, 66}	228.	{18, 27, 33}	271.	{19, 33, 39}
186.	{16, 53, 63}	229.	{18, 27, 34}	272.	{19, 33, 40}
187.	{16, 53, 65}	230.	{18, 27, 40}	273.	{19, 33, 41}
188.	{16, 53, 66}	231.	{18, 28, 34}	274.	{19, 33, 42}
189.	{16, 54, 68}	232.	{18, 28, 38}	275.	{19, 33, 54}
190.	{16, 62, 68}	233.	{18, 28, 39}	276.	{19, 33, 66}
191.	{17, 21, 30}	234.	{18, 29, 38}	277.	{19, 34, 40}
192.	{17, 23, 30}	235.	{18, 29, 39}	278.	{19, 34, 41}
193.	{17, 23, 38}	236.	{18, 29, 47}	279.	{19, 34, 42}
194.	{17, 23, 39}	237.	{18, 29, 57}	280.	{19, 34, 54}
195.	{17, 24, 30}	238.	{18, 30, 47}	281.	{19, 34, 66}
196.	{17, 24, 38}	239.	{18, 31, 53}	282.	{19, 36, 43}
197.	{17, 24, 39}	240.	{18, 31, 54}	283.	{19, 36, 66}
198.	{17, 26, 30}	241.	{18, 33, 40}	284.	{19, 37, 49}
199.	{17, 26, 52}	242.	{18, 33, 41}	285.	{19, 38, 49}
200.	{17, 26, 70}	243.	{18, 33, 42}	286.	{19, 38, 63}
201.	{17, 29, 57}	244.	{18, 33, 54}	287.	{19, 43, 54}
202.	{17, 30, 36}	245.	{18, 33, 66}	288.	{19, 45, 54}
203.	{17, 30, 38}	246.	{18, 34, 40}	289.	{19, 46, 54}
204.	{17, 30, 39}	247.	{18, 34, 41}	290.	{19, 49, 63}
205.	{17, 30, 41}	248.	{18, 34, 42}	291.	{20, 26, 37}

292.	{20, 28, 37}	335.	{21, 43, 54}	378.	{23, 34, 61}
293.	{20, 29, 37}	336.	{21, 43, 55}	379.	{23, 35, 51}
294.	{20, 31, 37}	337.	{21, 43, 57}	380.	{23, 36, 57}
295.	{20, 37, 41}	338.	{21, 45, 54}	381.	{23, 36, 58}
296.	{20, 37, 43}	339.	{21, 45, 55}	382.	{23, 38, 46}
297.	{20, 37, 45}	340.	{21, 45, 57}	383.	{23, 38, 58}
298.	{20, 37, 46}	341.	{21, 46, 54}	384.	{23, 39, 46}
299.	{20, 37, 54}	342.	{21, 46, 55}	385.	{23, 39, 58}
300.	{20, 37, 55}	343.	{21, 46, 57}	386.	{23, 41, 46}
301.	{20, 37, 57}	344.	{21, 58, 69}	387.	{23, 41, 47}
302.	{20, 37, 58}	345.	{21, 66, 69}	388.	{23, 46, 54}
303.	{20, 37, 66}	346.	{22, 26, 35}	389.	{23, 46, 55}
304.	{20, 37, 69}	347.	{22, 28, 35}	390.	{23, 46, 57}
305.	{20, 37, 72}	348.	{22, 29, 35}	391.	{23, 51, 61}
306.	{20, 38, 63}	349.	{22, 31, 35}	392.	{24, 30, 38}
307.	{20, 41, 44}	350.	{22, 31, 56}	393.	{24, 30, 39}
308.	{20, 41, 67}	351.	{22, 31, 71}	394.	{24, 31, 38}
309.	{20, 43, 55}	352.	{22, 34, 61}	395.	{24, 31, 39}
310.	{20, 43, 57}	353.	{22, 35, 41}	396.	{24, 32, 38}
311.	{20, 45, 55}	354.	{22, 35, 43}	397.	{24, 32, 39}
312.	{20, 45, 57}	355.	{22, 35, 45}	398.	{24, 36, 57}
313.	{21, 25, 42}	356.	{22, 35, 46}	399.	{24, 36, 58}
314.	{21, 27, 40}	357.	{22, 35, 54}	400.	{24, 38, 46}
315.	{21, 30, 52}	358.	{22, 35, 55}	401.	{24, 38, 58}
316.	{21, 30, 69}	359.	{22, 35, 57}	402.	{24, 39, 46}
317.	{21, 31, 41}	360.	{22, 35, 58}	403.	{24, 39, 58}
318.	{21, 31, 53}	361.	{22, 35, 66}	404.	{24, 41, 46}
319.	{21, 31, 54}	362.	{22, 35, 69}	405.	{24, 41, 47}
320.	{21, 31, 55}	363.	{22, 35, 72}	406.	{24, 42, 53}
321.	{21, 33, 39}	364.	{22, 43, 55}	407.	{24, 43, 53}
322.	{21, 33, 54}	365.	{22, 43, 57}	408.	{24, 47, 58}
323.	{21, 33, 55}	366.	{22, 45, 55}	409.	{24, 49, 58}
324.	{21, 34, 54}	367.	{22, 45, 57}	410.	{24, 50, 58}
325.	{21, 34, 55}	368.	{23, 29, 39}	411.	{25, 31, 42}
326.	{21, 38, 45}	369.	{23, 29, 41}	412.	{25, 33, 42}
327.	{21, 38, 46}	370.	{23, 30, 38}	413.	{25, 34, 42}
328.	{21, 39, 45}	371.	{23, 30, 39}	414.	{25, 36, 42}
329.	{21, 39, 46}	372.	{23, 31, 38}	415.	{25, 42, 46}
330.	{21, 41, 45}	373.	{23, 31, 39}	416.	{25, 42, 47}
331.	{21, 41, 46}	374.	{23, 32, 38}	417.	{25, 42, 49}
332.	{21, 41, 47}	375.	{23, 32, 39}	418.	{25, 42, 50}
333.	{21, 42, 48}	376.	{23, 33, 39}	419.	{25, 42, 58}
334.	{21, 42, 69}	377.	{23, 34, 51}	420.	{25, 42, 59}

421.	{25, 42, 61}	464.	{27, 40, 67}	507.	{32, 51, 63}
422.	{25, 42, 62}	465.	{27, 40, 70}	508.	{32, 51, 65}
423.	{25, 42, 67}	466.	{27, 47, 59}	509.	{32, 53, 63}
424.	{25, 42, 70}	467.	{27, 47, 61}	510.	{32, 53, 65}
425.	{25, 47, 59}	468.	{27, 49, 59}	511.	{33, 45, 59}
426.	{25, 47, 61}	469.	{27, 49, 61}	512.	{33, 54, 62}
427.	{25, 49, 59}	470.	{28, 39, 55}	513.	{33, 54, 63}
428.	{25, 49, 61}	471.	{28, 39, 65}	514.	{33, 54, 65}
429.	{26, 35, 56}	472.	{28, 40, 55}	515.	{34, 51, 61}
430.	{26, 35, 70}	473.	{28, 41, 61}	516.	{34, 55, 66}
431.	{26, 36, 57}	474.	{28, 41, 62}	517.	{34, 57, 66}
432.	{26, 36, 58}	475.	{28, 50, 58}	518.	{34, 58, 66}
433.	{26, 36, 59}	476.	{28, 50, 59}	519.	{35, 43, 55}
434.	{26, 38, 58}	477.	{28, 50, 61}	520.	{35, 43, 57}
435.	{26, 38, 59}	478.	{28, 55, 65}	521.	{35, 45, 55}
436.	{26, 39, 58}	479.	{29, 41, 61}	522.	{35, 45, 57}
437.	{26, 39, 59}	480.	{29, 41, 62}	523.	{36, 43, 55}
438.	{26, 46, 70}	481.	{29, 47, 57}	524.	{36, 43, 57}
439.	{26, 47, 58}	482.	{29, 51, 62}	525.	{36, 43, 58}
440.	{26, 47, 59}	483.	{29, 53, 62}	526.	{36, 45, 55}
441.	{26, 47, 61}	484.	{29, 54, 62}	527.	{36, 45, 57}
442.	{26, 49, 58}	485.	{30, 51, 63}	528.	{36, 45, 58}
443.	{26, 49, 59}	486.	{30, 51, 65}	529.	{36, 46, 72}
444.	{26, 49, 61}	487.	{30, 53, 63}	530.	{36, 54, 72}
445.	{26, 50, 58}	488.	{30, 53, 65}	531.	{36, 55, 66}
446.	{26, 50, 59}	489.	{31, 40, 60}	532.	{36, 57, 66}
447.	{26, 50, 61}	490.	{31, 40, 71}	533.	{36, 58, 66}
448.	{26, 62, 70}	491.	{31, 41, 61}	534.	{37, 43, 55}
449.	{27, 31, 40}	492.	{31, 41, 62}	535.	{37, 43, 57}
450.	{27, 33, 40}	493.	{31, 41, 63}	536.	{37, 45, 55}
451.	{27, 34, 40}	494.	{31, 50, 71}	537.	{37, 45, 57}
452.	{27, 36, 40}	495.	{31, 51, 62}	538.	{38, 43, 58}
453.	{27, 36, 60}	496.	{31, 51, 63}	539.	{38, 45, 58}
454.	{27, 36, 72}	497.	{31, 51, 65}	540.	{38, 49, 63}
455.	{27, 39, 65}	498.	{31, 53, 62}	541.	{38, 58, 66}
456.	{27, 40, 46}	499.	{31, 53, 63}	542.	{39, 46, 59}
457.	{27, 40, 47}	500.	{31, 53, 65}	543.	{39, 46, 61}
458.	{27, 40, 49}	501.	{31, 54, 62}	544.	{39, 46, 62}
459.	{27, 40, 50}	502.	{31, 54, 63}	545.	{39, 55, 65}
460.	{27, 40, 58}	503.	{31, 54, 65}	546.	{40, 47, 59}
461.	{27, 40, 59}	504.	{31, 66, 71}	547.	{40, 47, 61}
462.	{27, 40, 61}	505.	{32, 41, 64}	548.	{40, 49, 59}
463.	{27, 40, 62}	506.	{32, 41, 67}	549.	{40, 49, 61}

550.	{41, 46, 59}	593.	{46, 54, 62}
551.	{41, 46, 61}	594.	{46, 55, 61}
552.	{41, 46, 62}	595.	{47, 53, 61}
553.	{41, 47, 59}	596.	{47, 53, 62}
554.	{41, 47, 61}	597.	{47, 53, 63}
555.	{41, 47, 62}	598.	{47, 54, 59}
556.	{41, 49, 59}	599.	{47, 54, 61}
557.	{41, 49, 61}	600.	{47, 55, 61}
558.	{41, 49, 62}	601.	{47, 55, 63}
559.	{41, 50, 67}	602.	{47, 55, 65}
560.	{41, 58, 67}	603.	{47, 57, 63}
561.	{42, 47, 59}	604.	{47, 57, 65}
562.	{42, 47, 61}	605.	{47, 59, 66}
563.	{42, 49, 59}	606.	{47, 61, 66}
564.	{42, 49, 61}	607.	{49, 54, 59}
565.	{43, 49, 57}	608.	{49, 54, 61}
566.	{43, 49, 58}	609.	{49, 55, 63}
567.	{43, 49, 59}	610.	{49, 55, 65}
568.	{43, 50, 55}	611.	{49, 57, 63}
569.	{43, 50, 57}	612.	{49, 57, 65}
570.	{43, 51, 57}	613.	{49, 59, 65}
571.	{43, 51, 59}	614.	{49, 59, 66}
572.	{43, 51, 61}	615.	{49, 61, 66}
573.	{43, 53, 59}	616.	{50, 58, 66}
574.	{43, 53, 61}	617.	{50, 59, 65}
575.	{43, 55, 62}	618.	{51, 57, 65}
576.	{43, 57, 62}	619.	{51, 57, 66}
577.	{45, 50, 55}	620.	{51, 58, 63}
578.	{45, 50, 57}	621.	{51, 58, 65}
579.	{45, 51, 59}	622.	{51, 59, 65}
580.	{45, 51, 61}	623.	{53, 58, 63}
581.	{45, 53, 59}	624.	{53, 58, 65}
582.	{45, 53, 61}		
583.	{45, 53, 63}		
584.	{45, 54, 63}		
585.	{45, 55, 61}		
586.	{45, 55, 62}		
587.	{45, 55, 63}		
588.	{45, 57, 62}		
589.	{46, 51, 63}		
590.	{46, 51, 65}		
591.	{46, 53, 63}		
592.	{46, 53, 65}		