LF polytope V representation - part 2

August 21, 2024

We present the list of all possible LF-vertices of the convex polytope of all LF correlations. The notation follows the one used in our arXiv preprint, and j is also the same label as the label for the vertices of the 24 vertices of the convex polytope of the Bell scenario with two parties, each having two dichotomic measurement settings.

We follow the recipe for finding the vertices provided first by Bong. et. al. Nature Physics 16 (12), 1199-1205 (2020). The H-representation we find has the same number of facets reported in their work. This is only the second part of the list of all the vertices.

	(0,0)	(0,1)	(1,0)	(1,1)
$\{A_1, B_1\}$	0	0	0	1
$\{A_1, B_2\}$	0	0	1	0
$\{A_1, B_3\}$	0	0	1	0
$\{A_2, B_1\}$	0	1	0	0
$\{A_2, B_2\}$	1	0	0	0
$\{A_2, B_3\}$	1	0	0	0
$\{A_3, B_1\}$	0	1	0	0
$\{A_3, B_2\}$	1	0	0	0
$\{A_3,B_3\}$	1	0	0	0

Table 1: (c,d) = (1,1), j = 1

	(0,0)	(0,1)	(1,0)	(1,1)
A_1, B_1	0	0	0	1
$\{A_1, B_2\}$	0	0	0	1
$\{A_1, B_3\}$	0	0	0	1
$\{A_2, B_1\}$	0	1	0	0
$\{A_2, B_2\}$	0	1	0	0
$\{A_2, B_3\}$	0	1	0	0
$\{A_3, B_1\}$	0	1	0	0
$\{A_3, B_2\}$	0	1	0	0
$\{A_3,B_3\}$	0	1	0	0

Table 2: (c,d) = (1,1), j = 2

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	(0,0)	(0, 1)	(1,0)	(1, 1)
A_1, B_1	0	0	0	1
$\{A_1, B_2\}$	0	0	1	0
$\{A_1, B_3\}$	0	0	1	0
$\{A_2,B_1\}$	0	0	0	1
$\{A_2, B_2\}$	0	0	1	0
$\{A_2, B_3\}$	0	0	1	0
$\{A_3,B_1\}$	0	0	0	1
$\{A_3, B_2\}$	0	0	1	0
A_3, B_3	0	0	1	0

Table 3: (c,d) = (1,1), j = 3

	(0,0)	(0,1)	(1,0)	(1, 1)
$\{A_1, B_1\}$	0	0	0	1
$\{A_1, B_2\}$	0	0	0	1
$\{A_1, B_3\}$	0	0	0	1
$\{A_2,B_1\}$	0	0	0	1
$\{A_2, B_2\}$	0	0	0	1
$\{A_2, B_3\}$	0	0	0	1
$\{A_3, B_1\}$	0	0	0	1
$\{A_3,B_2\}$	0	0	0	1
$\{A_3, B_3\}$	0	0	0	1

Table 4: (c,d) = (1,1), j = 4

	(0,0)	(0,1)	(1,0)	(1, 1)
$\{A_1, B_1\}$	0	0	0	1
$\{A_1, B_2\}$	0	0	0	1
$\{A_1, B_3\}$	0	0	1	0
$\{A_2,B_1\}$	0	1	0	0
$\{A_2, B_2\}$	0	1	0	0
$\{A_2, B_3\}$	1	0	0	0
$\{A_3, B_1\}$	0	1	0	0
$\{A_3, B_2\}$	0	1	0	0
A_3, B_3	1	0	0	0

Table 5: (c,d) = (1,1), j = 5

	(0,0)	(0,1)	(1,0)	(1,1)
$\overline{\{A_1,B_1\}}$	0	0	0	1
$\{A_1, B_2\}$	0	0	1	0
$\{A_1, B_3\}$	0	0	1	0
$\{A_2, B_1\}$	0	1	0	0
$\{A_2, B_2\}$	1	0	0	0
$\{A_2, B_3\}$	1	0	0	0
$\{A_3, B_1\}$	0	0	0	1
$\{A_3, B_2\}$	0	0	1	0
$\{A_3, B_3\}$	0	0	1	0

Table 6: (c,d) = (1,1), j = 6

	(0,0)	(0,1)	(1,0)	(1, 1)
A_1, B_1	0	0	0	1
$\{A_1, B_2\}$	0	0	0	1
$\{A_1, B_3\}$	0	0	0	1
$\{A_2,B_1\}$	0	1	0	0
$\{A_2, B_2\}$	0	1	0	0
$\{A_2, B_3\}$	0	1	0	0
$\{A_3,B_1\}$	0	0	0	1
$\{A_3, B_2\}$	0	0	0	1
A_3, B_3	0	0	0	1

Table 7: (c,d) = (1,1), j = 7

	(0,0)	(0,1)	(1,0)	(1,1)
$\{A_1, B_1\}$	0	0	0	1
$\{A_1, B_2\}$	0	0	1	0
$\{A_1, B_3\}$	0	0	1	0
$\{A_2, B_1\}$	0	0	0	1
$\{A_2, B_2\}$	0	0	1	0
$\{A_2, B_3\}$	0	0	1	0
$\{A_3, B_1\}$	0	1	0	0
$\{A_3, B_2\}$	1	0	0	0
$\{A_3, B_3\}$	1	0	0	0

Table 8: (c,d) = (1,1), j = 8

	(0,0)	(0,1)	(1,0)	(1, 1)
$\{A_1, B_1\}$	0	0	0	1
$\{A_1, B_2\}$	0	0	0	1
$\{A_1, B_3\}$	0	0	0	1
$\{A_2,B_1\}$	0	0	0	1
$\{A_2, B_2\}$	0	0	0	1
$\{A_2, B_3\}$	0	0	0	1
$\{A_3, B_1\}$	0	1	0	0
$\{A_3,B_2\}$	0	1	0	0
A_3, B_3	0	1	0	0

Table 9: (c,d) = (1,1), j = 9

	(0,0)	(0,1)	(1,0)	(1,1)
$\overline{\{A_1,B_1\}}$	0	0	0	1
$\{A_1, B_2\}$	0	0	1	0
$\{A_1, B_3\}$	0	0	0	1
$\{A_2,B_1\}$	0	1	0	0
$\{A_2, B_2\}$	1	0	0	0
$\{A_2, B_3\}$	0	1	0	0
$\{A_3, B_1\}$	0	1	0	0
$\{A_3, B_2\}$	1	0	0	0
$\{A_3, B_3\}$	0	1	0	0

Table 10: (c,d) = (1,1), j = 10

	(0,0)	(0, 1)	(1,0)	(1, 1)
A_1,B_1	0	0	0	1
$\{A_1, B_2\}$	0	0	0	1
$\{A_1, B_3\}$	0	0	1	0
$\{A_2, B_1\}$	0	0	0	1
$\{A_2, B_2\}$	0	0	0	1
$\{A_2, B_3\}$	0	0	1	0
$\{A_3, B_1\}$	0	0	0	1
$\{A_3, B_2\}$	0	0	0	1
A_3, B_3	0	0	1	0

Table 11: (c,d) = (1,1), j = 11

	(0,0)	(0,1)	(1,0)	(1, 1)
$\{A_1, B_1\}$	0	0	0	1
$\{A_1, B_2\}$	0	0	0	1
$\{A_1, B_3\}$	0	0	1	0
$\{A_2,B_1\}$	0	1	0	0
$\{A_2, B_2\}$	0	1	0	0
$\{A_2, B_3\}$	1	0	0	0
$\{A_3, B_1\}$	0	0	0	1
$\{A_3, B_2\}$	0	0	0	1
$\{A_3,B_3\}$	0	0	1	0

Table 12: (c,d) = (1,1), j = 12

	(0,0)	(0,1)	(1,0)	(1, 1)
$\{A_1, B_1\}$	0	0	0	1
$\{A_1, B_2\}$	0	0	1	0
$\{A_1,B_3\}$	0	0	0	1
$\{A_2,B_1\}$	0	0	0	1
$\{A_2, B_2\}$	0	0	1	0
$\{A_2, B_3\}$	0	0	0	1
$\{A_3, B_1\}$	0	1	0	0
$\{A_3,B_2\}$	1	0	0	0
A_3, B_3	0	1	0	0

Table 13: (c,d) = (1,1), j = 13

	(0,0)	(0,1)	(1,0)	(1,1)
$\overline{\{A_1,B_1\}}$	0	0	0	1
$\{A_1, B_2\}$	0	0	1	0
$\{A_1, B_3\}$	0	0	0	1
$\{A_2,B_1\}$	0	0	0	1
$\{A_2, B_2\}$	0	0	1	0
$\{A_2, B_3\}$	0	0	0	1
$\{A_3, B_1\}$	0	0	0	1
$\{A_3, B_2\}$	0	0	1	0
$\{A_3, B_3\}$	0	0	0	1

Table 14: (c,d) = (1,1), j = 14

	(0,0)	(0, 1)	(1,0)	(1, 1)
A_1, B_1	0	0	0	1
$\{A_1, B_2\}$	0	0	1	0
$\{A_1, B_3\}$	0	0	0	1
$\{A_2, B_1\}$	0	1	0	0
$\{A_2, B_2\}$	1	0	0	0
$\{A_2, B_3\}$	0	1	0	0
$\{A_3, B_1\}$	0	0	0	1
$\{A_3, B_2\}$	0	0	1	0
A_3, B_3	0	0	0	1

Table 15: (c,d) = (1,1), j = 15

	(0,0)	(0, 1)	(1,0)	(1, 1)
$\{A_1, B_1\}$	0	0	0	1
$\{A_1, B_2\}$	0	0	0	1
$\{A_1, B_3\}$	0	0	1	0
$\{A_2,B_1\}$	0	0	0	1
$\{A_2, B_2\}$	0	0	0	1
$\{A_2, B_3\}$	0	0	1	0
$\{A_3, B_1\}$	0	1	0	0
$\{A_3, B_2\}$	0	1	0	0
$\{A_3, B_3\}$	1	0	0	0

Table 16: (c,d) = (1,1), j = 16

	(0,0)	(0,1)	(1,0)	(1, 1)
$\{A_1, B_1\}$	0	0	0	1
$\{A_1, B_2\}$	0	0	$\frac{1}{2}$	$\frac{1}{2}$
$\{A_1, B_3\}$	0	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$	$\frac{1}{2}$
$\{A_2,B_1\}$	0	$\frac{1}{2}$	Ō	$\frac{1}{2}$
$\{A_2, B_2\}$	$\frac{1}{2}$	Õ	0	$\frac{1}{2}$
$\{A_2, B_3\}$	$\frac{\frac{1}{2}}{\frac{1}{2}}$	0	0	$\frac{1}{2}$
$\{A_3, B_1\}$	Õ	$\frac{1}{2}$	0	$\frac{1}{2}$
$\{A_3, B_2\}$	$\frac{1}{2}$	Õ	0	1212121212121212
$\{A_3, B_3\}$	Õ	$\frac{1}{2}$	$\frac{1}{2}$	Õ

Table 17: (c,d) = (1,1), j = 17

	(0,0)	(0,1)	(1,0)	(1,1)
A_1, B_1	0	0	0	1
$\{A_1, B_2\}$	0	0	$\frac{1}{2}$	$\frac{1}{2}$
$\{A_1, B_3\}$	0	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$	$\frac{1}{2}$
$\{A_2, B_1\}$	0	$\frac{1}{2}$	Ō	$\frac{\frac{1}{2}}{\frac{1}{2}}$
$\{A_2, B_2\}$	0	$\frac{1}{2}$	$\frac{1}{2}$	Ō
$\{A_2, B_3\}$	0	$\frac{1}{2}$	$\frac{\frac{1}{2}}{\frac{1}{2}}$	0
$\{A_3, B_1\}$	0	$\frac{1}{2}$	Õ	$\frac{1}{2}$
$\{A_3, B_2\}$	0	1212121212	$\frac{1}{2}$	Õ
$\{A_3,B_3\}$	$\frac{1}{2}$	0	0	$\frac{1}{2}$

Table 18: (c,d) = (1,1), j = 18

	(0,0)	(0,1)	(1,0)	(1, 1)
$\{A_1, B_1\}$	0	0	0	1
$\{A_1, B_2\}$	0	0	$\frac{1}{2}$	$\frac{1}{2}$
$\{A_1, B_3\}$	0	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$
$\{A_2,B_1\}$	0	$\frac{1}{2}$	Ō	$\frac{\mathbb{I}}{2}$
$\{A_2, B_2\}$	$\frac{1}{2}$	$\bar{0}$	0	$\frac{1}{2}$
$\{A_2, B_3\}$	$\bar{0}$	$\frac{1}{2}$	$\frac{1}{2}$	$\bar{0}$
$\{A_3,B_1\}$	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$	$\bar{0}$	$\frac{1}{2}$
$\{A_3, B_2\}$	$\frac{1}{2}$	$\tilde{0}$	0	$\frac{1}{2}$
A_3, B_3	$\frac{1}{2}$	0	0	$\frac{1}{2}$

Table 19: (c,d) = (1,1), j = 19

	(0,0)	(0,1)	(1,0)	(1,1)
$\{A_1, B_1\}$	0	0	0	1
$\{A_1, B_2\}$	0	0	$\frac{1}{2}$	$\frac{1}{2}$
$\{A_1, B_3\}$	0	0	$\frac{\overline{2}}{2}$	$\frac{\overline{2}}{\overline{2}}$ $\frac{1}{2}$
$\{A_2, B_1\}$	0	$\frac{1}{2}$	0	$\frac{1}{2}$
$\{A_2, B_2\}$	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$	$\frac{1}{2}$	Ō
$\{A_2, B_3\}$	$\frac{1}{2}$	$\bar{0}$	$\bar{0}$	$\frac{1}{2}$
$\{A_3, B_1\}$	Ō	$\frac{1}{2}$	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$
$\{A_3, B_2\}$	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$	$\frac{1}{2}$	$\bar{0}$
A_3, B_3	0	$\frac{1}{2}$	$\frac{1}{2}$	0

Table 20: (c,d) = (1,1), j = 20

	(0,0)	(0,1)	(1,0)	(1,1)
$\{A_1, B_1\}$	0	0	0	1
$\{A_1, B_2\}$	0	0	$\frac{1}{2}$	$\frac{1}{2}$
$\{A_1, B_3\}$	0	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$	112112112112112112
$\{A_2, B_1\}$	0	$\frac{1}{2}$	Ō	$\frac{1}{2}$
$\{A_2, B_2\}$	$\frac{1}{2}$	Ō	0	$\frac{1}{2}$
$\{A_2, B_3\}$	$\frac{\frac{1}{2}}{\frac{1}{2}}$	0	0	$\frac{1}{2}$
$\{A_3, B_1\}$	Ō	$\frac{1}{2}$	0	$\frac{1}{2}$
$\{A_3, B_2\}$	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$	$\frac{1}{2}$	Ō
$\{A_3, B_3\}$	$\frac{1}{2}$	Õ	Õ	$\frac{1}{2}$

Table 21: (c,d) = (1,1), j = 21

	(0,0)	(0,1)	(1,0)	(1, 1)
$\{A_1, B_1\}$	0	0	0	1
$\{A_1, B_2\}$	0	0	$\frac{1}{2}$	$\frac{1}{2}$
$\{A_1, B_3\}$	0	0	$\frac{\overline{2}}{\overline{2}}$	$\frac{1}{2}$
$\{A_2, B_1\}$	0	$\frac{1}{2}$	Õ	$\frac{\frac{1}{2}}{\frac{1}{2}}$
$\{A_2, B_2\}$	0	12121212	$\frac{1}{2}$	Õ
$\{A_2, B_3\}$	0	$\frac{1}{2}$	$\frac{\frac{1}{2}}{\frac{1}{2}}$	0
$\{A_3, B_1\}$	0	$\frac{1}{2}$	Õ	$\frac{1}{2}$
$\{A_3, B_2\}$	$\frac{1}{2}$	$\tilde{0}$	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$
$\{A_3, B_3\}$	0	$\frac{1}{2}$	$\frac{1}{2}$	0

Table 22: (c,d) = (1,1), j = 22

	(0,0)	(0,1)	(1,0)	(1, 1)
A_1, B_1	0	0	0	1
$\{A_1, B_2\}$	0	0	$\frac{1}{2}$	$\frac{1}{2}$
$\{A_1, B_3\}$	0	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$
$\{A_2,B_1\}$	0	$\frac{1}{2}$	$\bar{0}$	$\frac{1}{2}$
$\{A_2, B_2\}$	$\frac{1}{2}$	$\bar{0}$	0	$\frac{1}{2}$
$\{A_2, B_3\}$	$\bar{0}$	$\frac{1}{2}$	$\frac{1}{2}$	0
$\{A_3,B_1\}$	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$	$\bar{0}$	$\frac{1}{2}$
$\{A_3, B_2\}$	0	$\frac{1}{2}$	$\frac{1}{2}$	$\bar{0}$
A_3, B_3	0	$\frac{1}{2}$	$\frac{1}{2}$	0

Table 23: (c,d) = (1,1), j = 23

	(0,0)	(0,1)	(1,0)	(1,1)
$\{A_1, B_1\}$	0	0	0	1
$\{A_1, B_2\}$	0	0	$\frac{1}{2}$	$\frac{1}{2}$
$\{A_1,B_3\}$	0	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$	$\frac{\frac{1}{2}}{\frac{1}{2}}$
$\{A_2,B_1\}$	0	$\frac{1}{2}$	$\bar{0}$	$\frac{1}{2}$
$\{A_2, B_2\}$	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$	$\frac{1}{2}$	Ō
$\{A_2, B_3\}$	$\frac{1}{2}$	0	$\bar{0}$	$\frac{1}{2}$
$\{A_3, B_1\}$	Ō	$\frac{1}{2}$	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$
$\{A_3, B_2\}$	$\frac{1}{2}$	Ō	0	$\frac{\mathbb{I}}{2}$
$\{A_3, B_3\}$	$\frac{1}{2}$	0	0	$\frac{1}{2}$

Table 24: (c,d) = (1,1), j = 24

	(0,0)	(0,1)	(1,0)	(1, 1)
$\{A_1, B_1\}$	0	1	0	0
$\{A_1, B_2\}$	1	0	0	0
$\{A_1, B_3\}$	1	0	0	0
$\{A_2,B_1\}$	0	1	0	0
$\{A_2, B_2\}$	1	0	0	0
$\{A_2, B_3\}$	1	0	0	0
$\{A_3, B_1\}$	0	1	0	0
$\{A_3,B_2\}$	1	0	0	0
A_3, B_3	1	0	0	0

Table 25: (c,d) = (0,1), j = 1

	(0,0)	(0,1)	(1,0)	(1, 1)
$\overline{\{A_1,B_1\}}$	0	1	0	0
$\{A_1, B_2\}$	0	1	0	0
$\{A_1, B_3\}$	0	1	0	0
$\{A_2,B_1\}$	0	1	0	0
$\{A_2, B_2\}$	0	1	0	0
$\{A_2, B_3\}$	0	1	0	0
$\{A_3, B_1\}$	0	1	0	0
$\{A_3, B_2\}$	0	1	0	0
$\{A_3,B_3\}$	0	1	0	0

Table 26: (c,d) = (0,1), j = 2

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	(0,0)	(0, 1)	(1,0)	(1, 1)
$\overline{\{A_1,B_1\}}$	0	1	0	0
$\{A_1, B_2\}$	1	0	0	0
$\{A_1, B_3\}$	1	0	0	0
$\{A_2,B_1\}$	0	0	0	1
$\{A_2, B_2\}$	0	0	1	0
$\{A_2, B_3\}$	0	0	1	0
$\{A_3,B_1\}$	0	0	0	1
$\{A_3, B_2\}$	0	0	1	0
A_3, B_3	0	0	1	0

Table 27: (c, d) = (0, 1), j = 3

	(0,0)	(0,1)	(1,0)	(1,1)
$\{A_1, B_1\}$	0	1	0	0
$\{A_1, B_2\}$	0	1	0	0
$\{A_1, B_3\}$	0	1	0	0
$\{A_2, B_1\}$	0	0	0	1
$\{A_2, B_2\}$	0	0	0	1
$\{A_2, B_3\}$	0	0	0	1
$\{A_3, B_1\}$	0	0	0	1
$\{A_3, B_2\}$	0	0	0	1
$\{A_3, B_3\}$	0	0	0	1

Table 28: (c,d) = (0,1), j = 4

	(0,0)	(0, 1)	(1,0)	(1, 1)
A_1, B_1	0	1	0	0
$\{A_1, B_2\}$	0	1	0	0
$\{A_1, B_3\}$	1	0	0	0
$\{A_2,B_1\}$	0	1	0	0
$\{A_2, B_2\}$	0	1	0	0
$\{A_2, B_3\}$	1	0	0	0
$\{A_3, B_1\}$	0	1	0	0
$\{A_3, B_2\}$	0	1	0	0
$\{A_3, B_3\}$	1	0	0	0

Table 29: (c,d) = (0,1), j = 5

	(0,0)	(0,1)	(1,0)	(1, 1)
$\overline{\{A_1,B_1\}}$	0	1	0	0
$\{A_1, B_2\}$	1	0	0	0
$\{A_1, B_3\}$	1	0	0	0
$\{A_2, B_1\}$	0	1	0	0
$\{A_2, B_2\}$	1	0	0	0
$\{A_2, B_3\}$	1	0	0	0
$\{A_3, B_1\}$	0	0	0	1
$\{A_3, B_2\}$	0	0	1	0
$\{A_3, B_3\}$	0	0	1	0

Table 30: (c,d) = (0,1), j = 6

	(0,0)	(0,1)	(1,0)	(1, 1)
A_1, B_1	0	1	0	0
$\{A_1, B_2\}$	0	1	0	0
$\{A_1, B_3\}$	0	1	0	0
$\{A_2,B_1\}$	0	1	0	0
$\{A_2, B_2\}$	0	1	0	0
$\{A_2, B_3\}$	0	1	0	0
$\{A_3, B_1\}$	0	0	0	1
$\{A_3, B_2\}$	0	0	0	1
A_3, B_3	0	0	0	1

Table 31: (c,d) = (0,1), j = 7

	(0,0)	(0,1)	(1,0)	(1, 1)
$\{A_1, B_1\}$	0	1	0	0
$\{A_1, B_2\}$	1	0	0	0
$\{A_1, B_3\}$	1	0	0	0
$\{A_2, B_1\}$	0	0	0	1
$\{A_2, B_2\}$	0	0	1	0
$\{A_2, B_3\}$	0	0	1	0
$\{A_3, B_1\}$	0	1	0	0
$\{A_3, B_2\}$	1	0	0	0
$\{A_3, B_3\}$	1	0	0	0

Table 32: (c,d) = (0,1), j = 8

	(0,0)	(0,1)	(1,0)	(1, 1)
$\{A_1, B_1\}$	0	1	0	0
$\{A_1, B_2\}$	0	1	0	0
$\{A_1, B_3\}$	0	1	0	0
$\{A_2, B_1\}$	0	0	0	1
$\{A_2, B_2\}$	0	0	0	1
$\{A_2, B_3\}$	0	0	0	1
$\{A_3, B_1\}$	0	1	0	0
$\{A_3,B_2\}$	0	1	0	0
A_3, B_3	0	1	0	0

Table 33: (c,d) = (0,1), j = 9

	(0,0)	(0,1)	(1,0)	(1,1)
$\overline{\{A_1,B_1\}}$	0	1	0	0
$\{A_1, B_2\}$	1	0	0	0
$\{A_1, B_3\}$	0	1	0	0
$\{A_2,B_1\}$	0	1	0	0
$\{A_2, B_2\}$	1	0	0	0
$\{A_2, B_3\}$	0	1	0	0
$\{A_3, B_1\}$	0	1	0	0
$\{A_3, B_2\}$	1	0	0	0
$\{A_3,B_3\}$	0	1	0	0

Table 34: (c,d) = (0,1), j = 10

=				
	(0,0)	(0, 1)	(1,0)	(1, 1)
A_1, B_1	0	1	0	0
$\{A_1, B_2\}$	0	1	0	0
$\{A_1, B_3\}$	1	0	0	0
$\{A_2,B_1\}$	0	0	0	1
$\{A_2, B_2\}$	0	0	0	1
$\{A_2, B_3\}$	0	0	1	0
$\{A_3,B_1\}$	0	0	0	1
$\{A_3,B_2\}$	0	0	0	1
A_3, B_3	0	0	1	0

Table 35: (c,d) = (0,1), j = 11

	(0,0)	(0,1)	(1,0)	(1,1)
$\{A_1, B_1\}$	0	1	0	0
$\{A_1, B_2\}$	0	1	0	0
$\{A_1, B_3\}$	1	0	0	0
$\{A_2,B_1\}$	0	1	0	0
$\{A_2, B_2\}$	0	1	0	0
$\{A_2, B_3\}$	1	0	0	0
$\{A_3, B_1\}$	0	0	0	1
$\{A_3,B_2\}$	0	0	0	1
$\{A_3,B_3\}$	0	0	1	0

Table 36: (c,d) = (0,1), j = 12

	(0,0)	(0,1)	(1,0)	(1, 1)
$\{A_1, B_1\}$	0	1	0	0
$\{A_1, B_2\}$	1	0	0	0
$\{A_1,B_3\}$	0	1	0	0
$\{A_2,B_1\}$	0	0	0	1
$\{A_2, B_2\}$	0	0	1	0
$\{A_2, B_3\}$	0	0	0	1
$\{A_3, B_1\}$	0	1	0	0
$\{A_3, B_2\}$	1	0	0	0
A_3, B_3	0	1	0	0

Table 37: (c,d) = (0,1), j = 13

	(0,0)	(0,1)	(1,0)	(1,1)
$\overline{\{A_1,B_1\}}$	0	1	0	0
$\{A_1, B_2\}$	1	0	0	0
$\{A_1, B_3\}$	0	1	0	0
$\{A_2,B_1\}$	0	0	0	1
$\{A_2, B_2\}$	0	0	1	0
$\{A_2, B_3\}$	0	0	0	1
$\{A_3, B_1\}$	0	0	0	1
$\{A_3, B_2\}$	0	0	1	0
$\{A_3, B_3\}$	0	0	0	1

Table 38: (c,d) = (0,1), j = 14

	(0,0)	(0,1)	(1,0)	(1, 1)
$\overline{\{A_1,B_1\}}$	0	1	0	0
$\{A_1, B_2\}$	1	0	0	0
$\{A_1, B_3\}$	0	1	0	0
$\{A_2,B_1\}$	0	1	0	0
$\{A_2, B_2\}$	1	0	0	0
$\{A_2, B_3\}$	0	1	0	0
$\{A_3,B_1\}$	0	0	0	1
$\{A_3, B_2\}$	0	0	1	0
A_3, B_3	0	0	0	1

Table 39: (c,d) = (0,1), j = 15

	(0,0)	(0,1)	(1,0)	(1, 1)
$\{A_1, B_1\}$	0	1	0	0
$\{A_1, B_2\}$	0	1	0	0
$\{A_1, B_3\}$	1	0	0	0
$\{A_2, B_1\}$	0	0	0	1
$\{A_2, B_2\}$	0	0	0	1
$\{A_2, B_3\}$	0	0	1	0
$\{A_3, B_1\}$	0	1	0	0
$\{A_3, B_2\}$	0	1	0	0
A_3, B_3	1	0	0	0

Table 40: (c,d) = (0,1), j = 16

	(0,0)	(0,1)	(1,0)	(1, 1)
$\{A_1, B_1\}$	0	1	0	0
$\{A_1, B_2\}$	$\frac{1}{2}$	$\frac{1}{2}$	0	0
$\{A_1, B_3\}$	$\frac{\frac{1}{2}}{\frac{1}{2}}$	$\frac{\frac{1}{2}}{\frac{1}{2}}$	0	0
$\{A_2, B_1\}$	Õ	$\frac{1}{2}$	0	$\frac{1}{2}$
$\{A_2, B_2\}$	$\frac{1}{2}$	Õ	0	$\frac{1}{2}$
$\{A_2, B_3\}$	$\frac{\frac{1}{2}}{\frac{1}{2}}$	0	0	$\frac{1}{2}$
$\{A_3, B_1\}$	Õ	$\frac{1}{2}$	0	$\frac{1}{2}$
$\{A_3, B_2\}$	$\frac{1}{2}$	Õ	0	121212121212
$\{A_3, B_3\}$	$\tilde{0}$	$\frac{1}{2}$	$\frac{1}{2}$	0

Table 41: (c,d) = (0,1), j = 17

	(0,0)	(0,1)	(1,0)	(1,1)
$\overline{\{A_1,B_1\}}$	0	1	0	0
$\{A_1, B_2\}$	$\frac{1}{2}$	$\frac{1}{2}$	0	0
$\{A_1, B_3\}$	$\frac{\frac{1}{2}}{\frac{1}{2}}$	$\frac{\overline{1}}{2}$	0	0
$\{A_2,B_1\}$	Ō	$\frac{\overline{1}}{2}$	0	$\frac{1}{2}$
$\{A_2, B_2\}$	0	$\frac{1}{2}$	$\frac{1}{2}$	Õ
$\{A_2, B_3\}$	0	$\frac{1}{2}$	$\frac{\frac{1}{2}}{\frac{1}{2}}$	0
$\{A_3, B_1\}$	0	$\frac{1}{2}$	Õ	$\frac{1}{2}$
$\{A_3, B_2\}$	0	12121212121212	$\frac{1}{2}$	Õ
$\{A_3,B_3\}$	$\frac{1}{2}$	0	0	$\frac{1}{2}$

Table 42: (c,d) = (0,1), j = 18

	(0,0)	(0, 1)	(1,0)	(1, 1)
A_1, B_1	0	1	0	0
$\{A_1, B_2\}$	$\frac{1}{2}$	$\frac{1}{2}$	0	0
$\{A_1, B_3\}$	$\frac{\frac{1}{2}}{\frac{1}{2}}$	$\frac{\frac{1}{2}}{\frac{1}{2}}$	0	0
$\{A_2, B_1\}$	Õ	$\frac{1}{2}$	0	$\frac{1}{2}$
$\{A_2, B_2\}$	$\frac{1}{2}$	Õ	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$
$\{A_2, B_3\}$	Õ	$\frac{1}{2}$	$\frac{1}{2}$	Õ
$\{A_3, B_1\}$	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$	Õ	$\frac{1}{2}$
$\{A_3, B_2\}$	$\frac{1}{2}$	$\tilde{0}$	0	$\frac{1}{2}$
$\{A_3, B_3\}$	$\frac{1}{2}$	0	0	$\frac{1}{2}$

Table 43: (c,d) = (0,1), j = 19

	(0,0)	(0,1)	(1,0)	(1,1)
$\{A_1, B_1\}$	0	1	0	0
$\{A_1, B_2\}$	$\frac{1}{2}$	$\frac{1}{2}$	0	0
$\{A_1, B_3\}$	$\frac{\overline{2}}{\overline{2}}$	$\frac{\mathbb{I}}{2}$	0	0
$\{A_2, B_1\}$	Õ	$\frac{1}{2}$	0	$\frac{1}{2}$
$\{A_2, B_2\}$	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$	$\frac{1}{2}$	Õ
$\{A_2, B_3\}$	$\frac{1}{2}$	Õ	Õ	$\frac{1}{2}$
$\{A_3, B_1\}$	$\tilde{0}$	$\frac{1}{2}$	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$
$\{A_3, B_2\}$	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$	$\frac{1}{2}$	Õ
$\{A_3, B_3\}$	0	$\frac{1}{2}$	$\frac{1}{2}$	0

Table 44: (c,d) = (0,1), j = 20

	(0,0)	(0,1)	(1,0)	(1,1)
A_1, B_1	0	1	0	0
$\{A_1, B_2\}$	$\frac{1}{2}$	$\frac{1}{2}$	0	0
$\{A_1, B_3\}$	$\frac{\frac{1}{2}}{\frac{1}{2}}$	$\frac{\frac{1}{2}}{\frac{1}{2}}$	0	0
$\{A_2, B_1\}$	Õ	$\frac{1}{2}$	0	$\frac{1}{2}$
$\{A_2, B_2\}$	$\frac{1}{2}$	Õ	0	$\frac{1}{21}$ $\frac{1}{21}$ $\frac{1}{21}$
$\{A_2, B_3\}$	$\frac{\frac{1}{2}}{\frac{1}{2}}$	0	0	$\frac{1}{2}$
$\{A_3, B_1\}$	$\tilde{0}$	$\frac{1}{2}$	0	$\frac{1}{2}$
$\{A_3, B_2\}$	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$	$\frac{1}{2}$	Õ
$\{A_3, B_3\}$	$\frac{1}{2}$	Õ	Õ	$\frac{1}{2}$

Table 45: (c,d) = (0,1), j = 21

	(0,0)	(0,1)	(1,0)	(1, 1)
A_1, B_1	0	1	0	0
$\{A_1, B_2\}$	$\frac{1}{2}$	$\frac{1}{2}$	0	0
$\{A_1, B_3\}$	$\begin{array}{c} \frac{1}{2} \\ \frac{1}{2} \\ 0 \end{array}$	121212121212	0	0
$\{A_2, B_1\}$	Õ	$\frac{1}{2}$	0	$\frac{1}{2}$
$\{A_2, B_2\}$	0	$\frac{1}{2}$	$\frac{1}{2}$	Õ
$\{A_2, B_3\}$	0	$\frac{1}{2}$	$\frac{\frac{1}{2}}{\frac{1}{2}}$	0
$\{A_3, B_1\}$	0	$\frac{1}{2}$	Õ	$\frac{1}{2}$
$\{A_3, B_2\}$	$\frac{1}{2}$	Õ	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$
$\{A_3, B_3\}$	0	$\frac{1}{2}$	$\frac{1}{2}$	0

Table 46: (c,d) = (0,1), j = 22

	(0,0)	(0,1)	(1,0)	(1, 1)
A_1, B_1	0	1	0	0
$\{A_1, B_2\}$	$\frac{1}{2}$	$\frac{1}{2}$	0	0
$\{A_1, B_3\}$	$\frac{1}{2}$	$\frac{\mathbb{I}}{2}$	0	0
$\{A_2,B_1\}$	Ō	$\frac{1}{2}$	0	$\frac{1}{2}$
$\{A_2, B_2\}$	$\frac{1}{2}$	Ō	0	$\frac{\overline{2}}{2}$
$\{A_2, B_3\}$	Ō	$\frac{1}{2}$	$\frac{1}{2}$	0
$\{A_3, B_1\}$	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$	Ō	$\frac{1}{2}$
$\{A_3,B_2\}$	0	$\frac{1}{2}$	$\frac{1}{2}$	Õ
A_3, B_3	0	$\frac{1}{2}$	$\frac{1}{2}$	0

Table 47: (c,d) = (0,1), j = 23

	(0,0)	(0,1)	(1,0)	(1,1)
A_1, B_1	0	1	0	0
$\{A_1, B_2\}$	$\frac{1}{2}$	$\frac{1}{2}$	0	0
$\{A_1, B_3\}$	$\frac{\frac{1}{2}}{\frac{1}{2}}$	$\frac{1}{2}$	0	0
$\{A_2, B_1\}$	Õ	121 121 121 12	0	$\frac{1}{2}$
$\{A_2, B_2\}$	0	$\frac{1}{2}$	$\frac{1}{2}$	Õ
$\{A_2, B_3\}$	$\frac{1}{2}$	Õ	Õ	$\frac{1}{2}$
$\{A_3, B_1\}$	$\tilde{0}$	$\frac{1}{2}$	0	$\frac{\frac{1}{2}}{\frac{1}{2}}$
$\{A_3, B_2\}$	$\frac{1}{2}$	$\tilde{0}$	0	$\frac{1}{2}$
$\{A_3, B_3\}$	$\frac{1}{2}$	0	0	$\frac{1}{2}$

Table 48: (c,d) = (0,1), j = 24