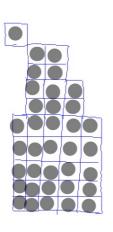


$$S(A) = \bigcup_{k=0}^{K} S_k(A)$$

Reconstruction

$$A = \bigcup_{k=0}^{K} (S_{k}(A) \oplus kB)$$

Example



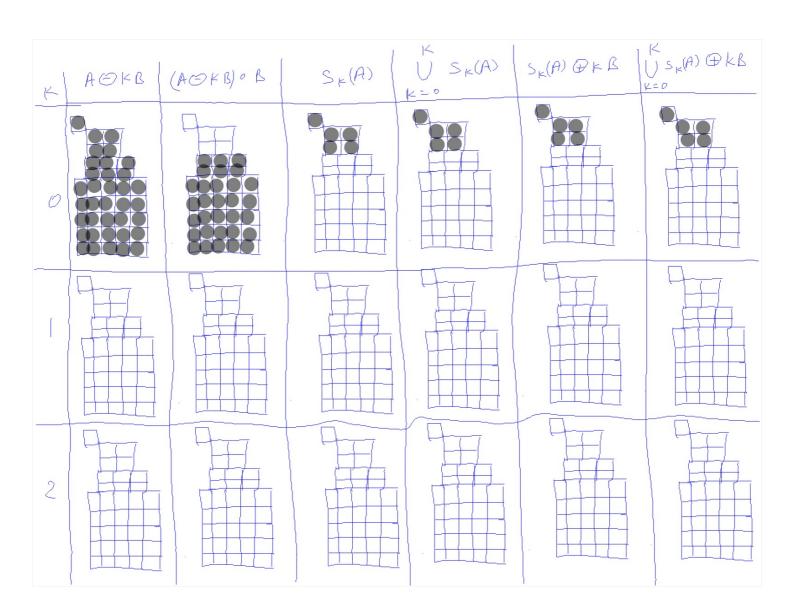


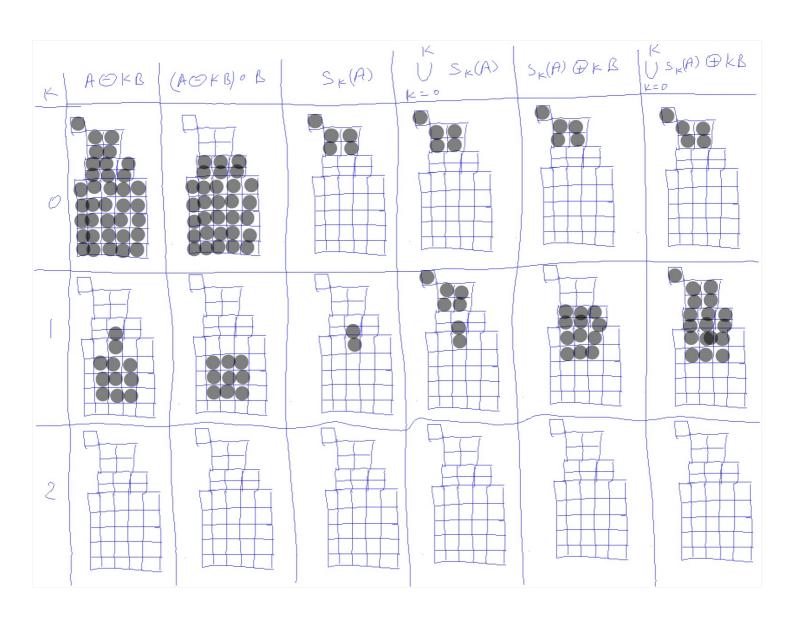
A

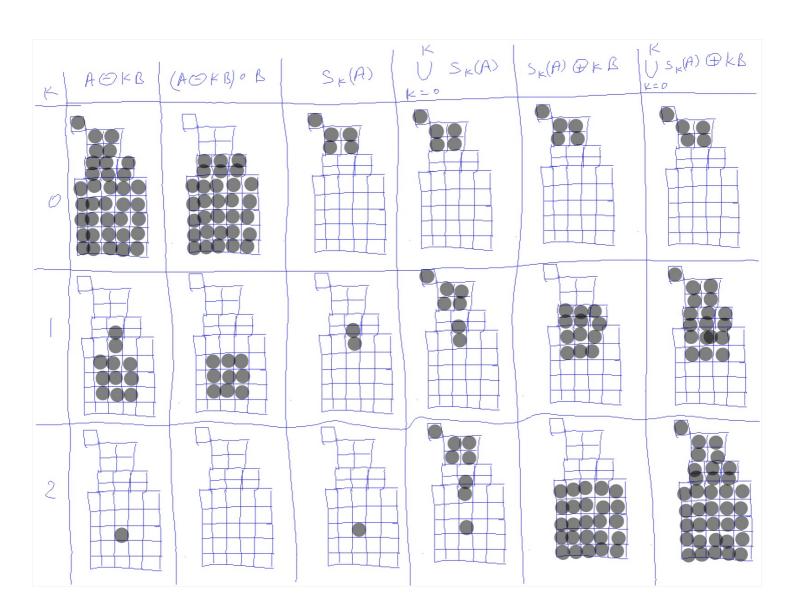
B

K	AOKB	(AOKB) OB	S _K (A)	K V S _K (A) K=0	SK(A) OKB	K USK(A) @KB K=0
0						
2						

K	AOKB	(AOKB) OB	S _K (A)	K V S _K (A) K=0	SK(A) OKB	K U s _K (A) @ KB K=0
0						
2						



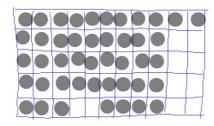




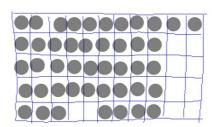
Thinning:-

 $A \otimes B = A - (A \oplus B)$

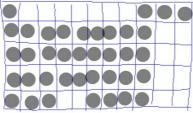
Example



A



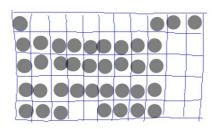




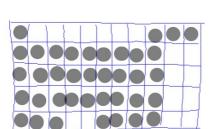
A, = A & B



B



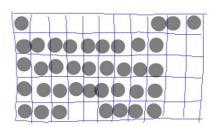
A.



$$A_2 = A_1 \otimes Q^2$$



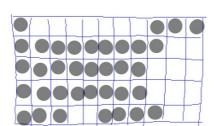
B²



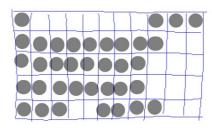
A



 \mathbb{S}^3



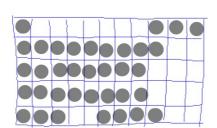
 $A_3 = A_2 \otimes Q^3$



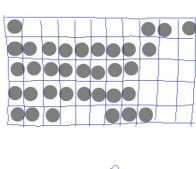
A3



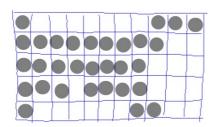
B4



AG = A3 Q g4



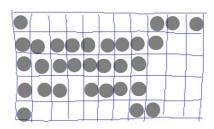








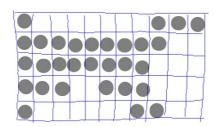




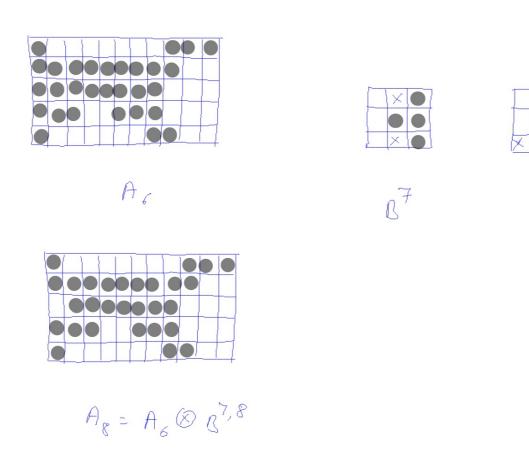
A5



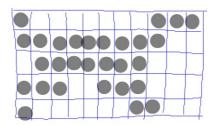
R



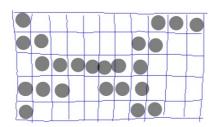
AG=AS B6

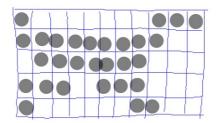


B

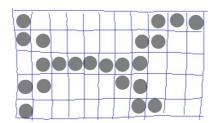


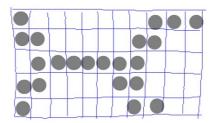
A8



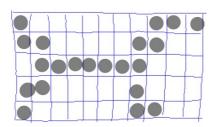


A 8, 4

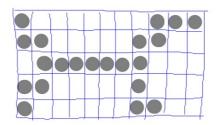




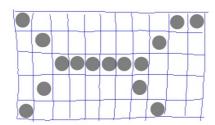
A8,5



A 8, 6



A8,6



A8,6 m-connectivity