



NP

$$p_{11} \equiv (0,0,1)$$

$$p_8 \equiv (s_3, 0, c_3)$$

$$p_9 \equiv (s_3 c_1, s_3 s_1, c_3)$$

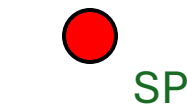
$$p_{10} \equiv (s_3 c_2, s_3 s_2, c_3)$$

$$p_5 \equiv (-s_3 c_1, s_3 s_1, -c_3)$$

$$p_4 \equiv (-s_3 c_2, s_3 s_2, -c_3)$$

$$p_3 \equiv (-s_3 c_2, -s_3 s_2, -c_3)$$

$$p_2 \equiv (-s_3 c_1, -s_3 s_1, -c_3)$$



SP

$$p_0 \equiv (0,0,-1)$$

$$p_6 \equiv (s_3 c_2, -s_3 s_2, c_3)$$

$$p_1 \equiv (-s_3, 0, -c_3)$$

$$c_1 \equiv \cos \frac{2\pi}{5} = \frac{1}{2\varphi} = 0.309017$$

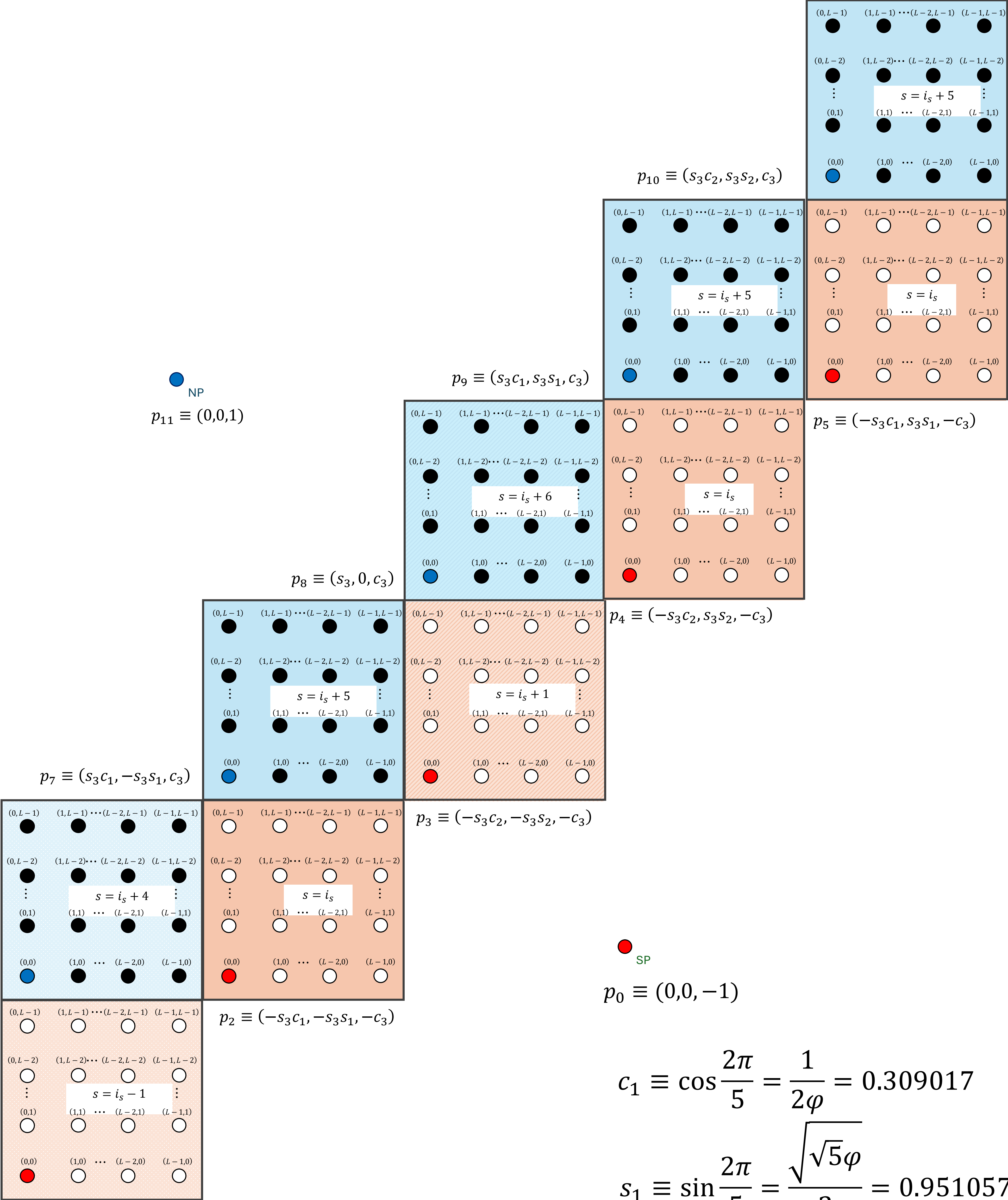
$$s_1 \equiv \sin \frac{2\pi}{5} = \frac{\sqrt{\sqrt{5}\varphi}}{2} = 0.951057$$

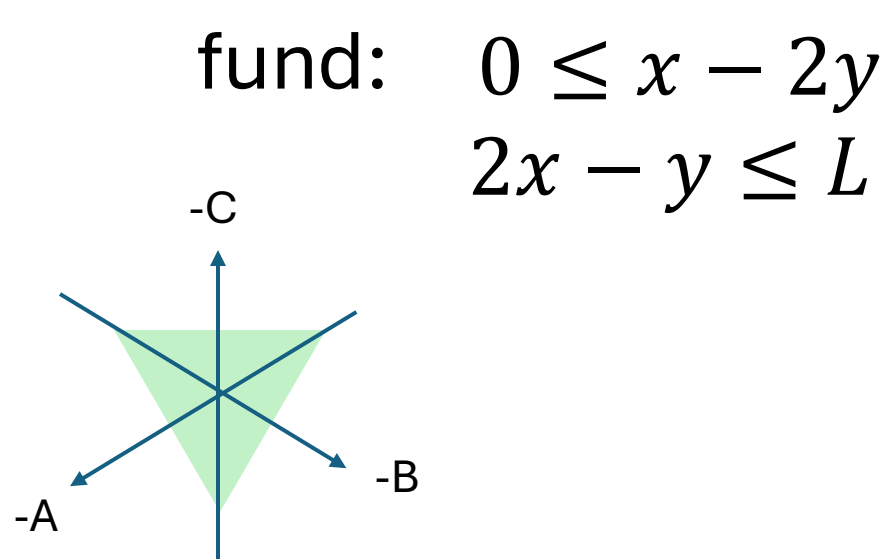
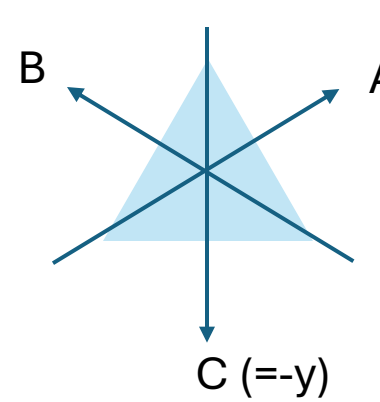
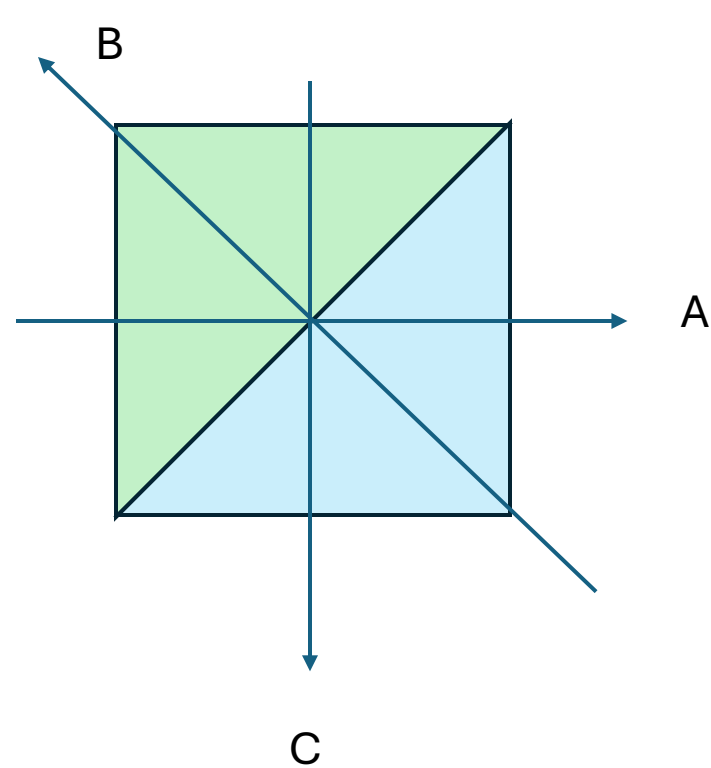
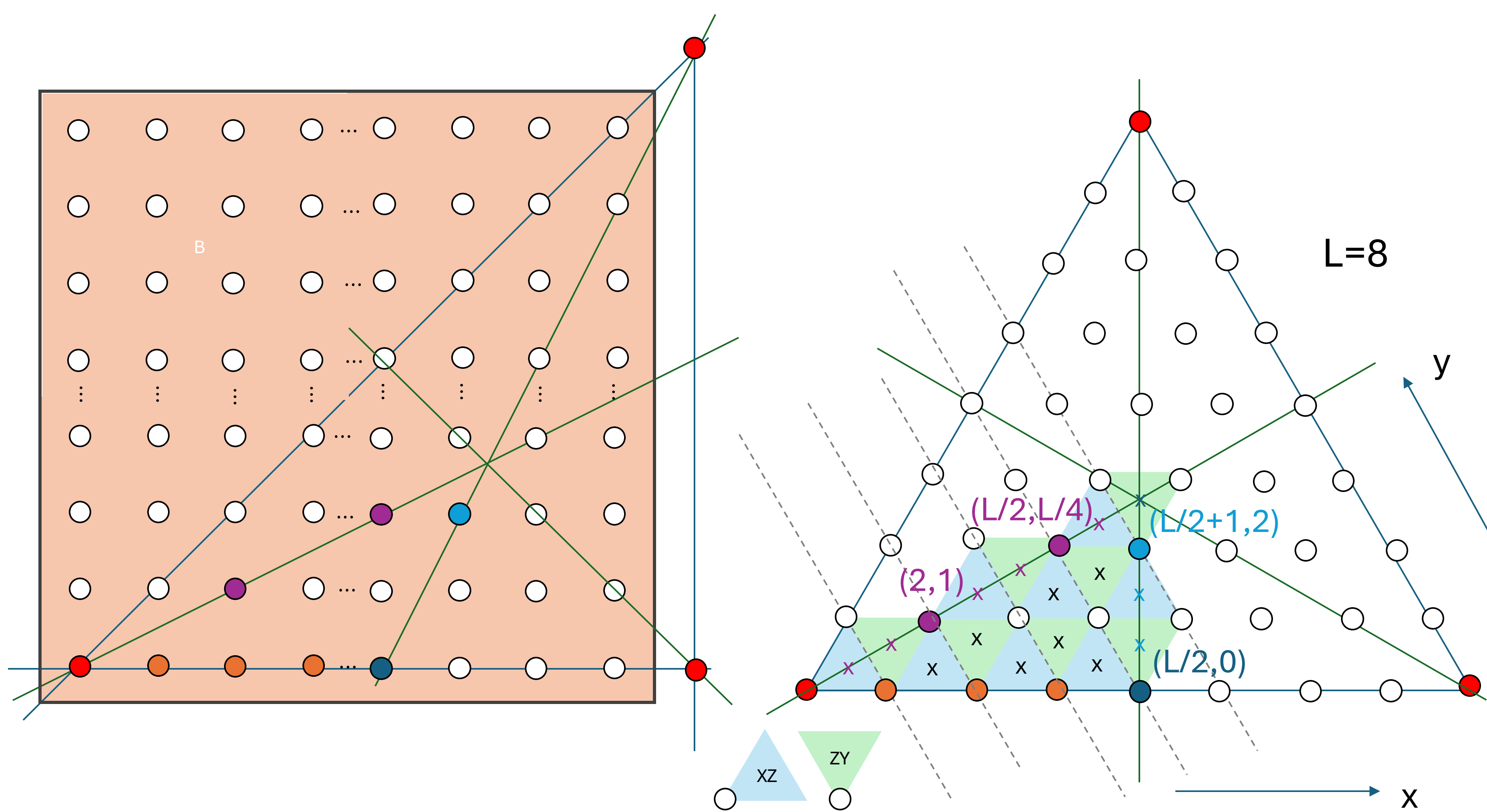
$$c_2 \equiv \cos \frac{4\pi}{5} = -\frac{\varphi}{2} = -0.809017$$

$$s_2 \equiv \sin \frac{4\pi}{5} = \frac{1}{2} \sqrt{\frac{\sqrt{5}}{\varphi}} = 0.587785$$

$$c_3 \equiv \frac{1}{\sqrt{5}} = 0.447214$$

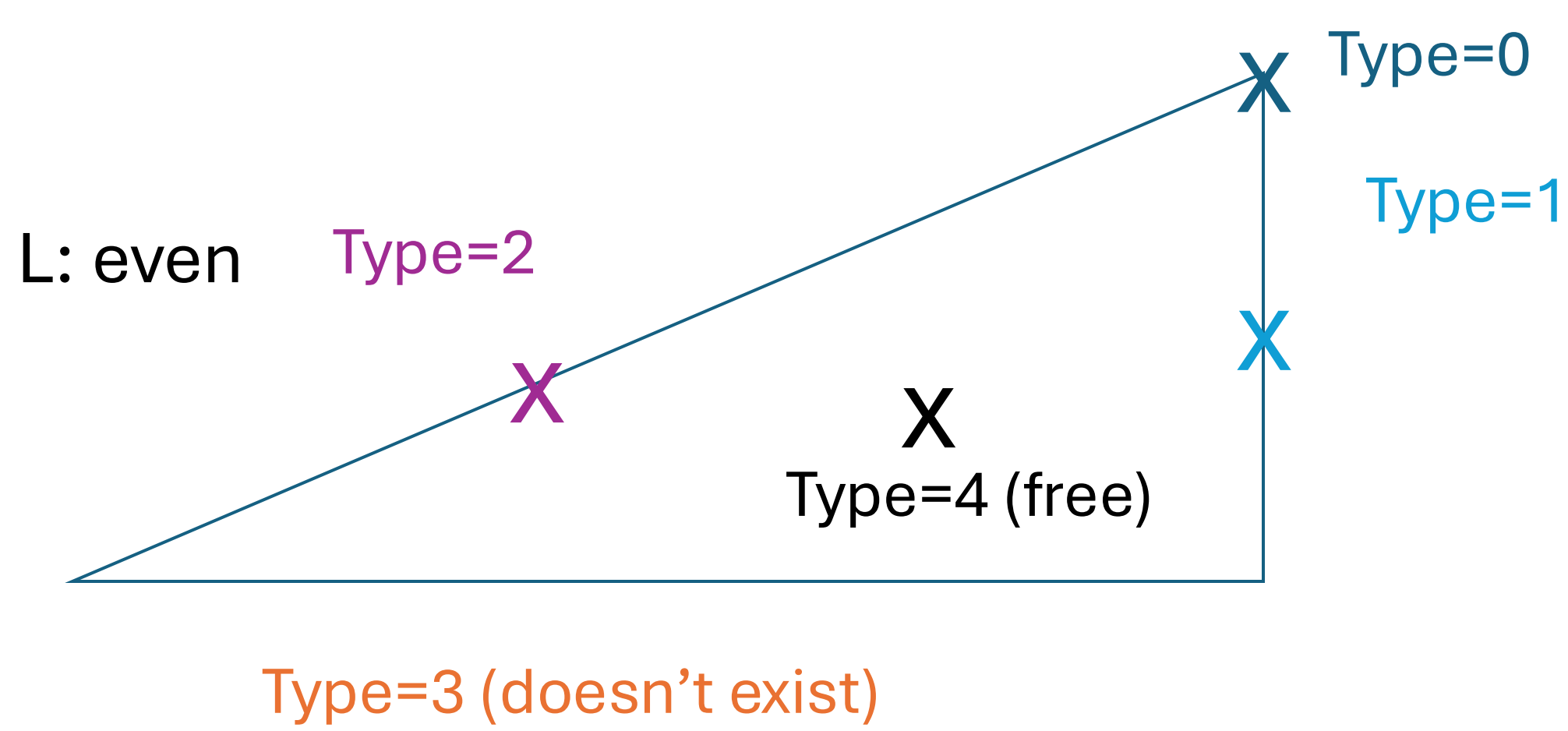
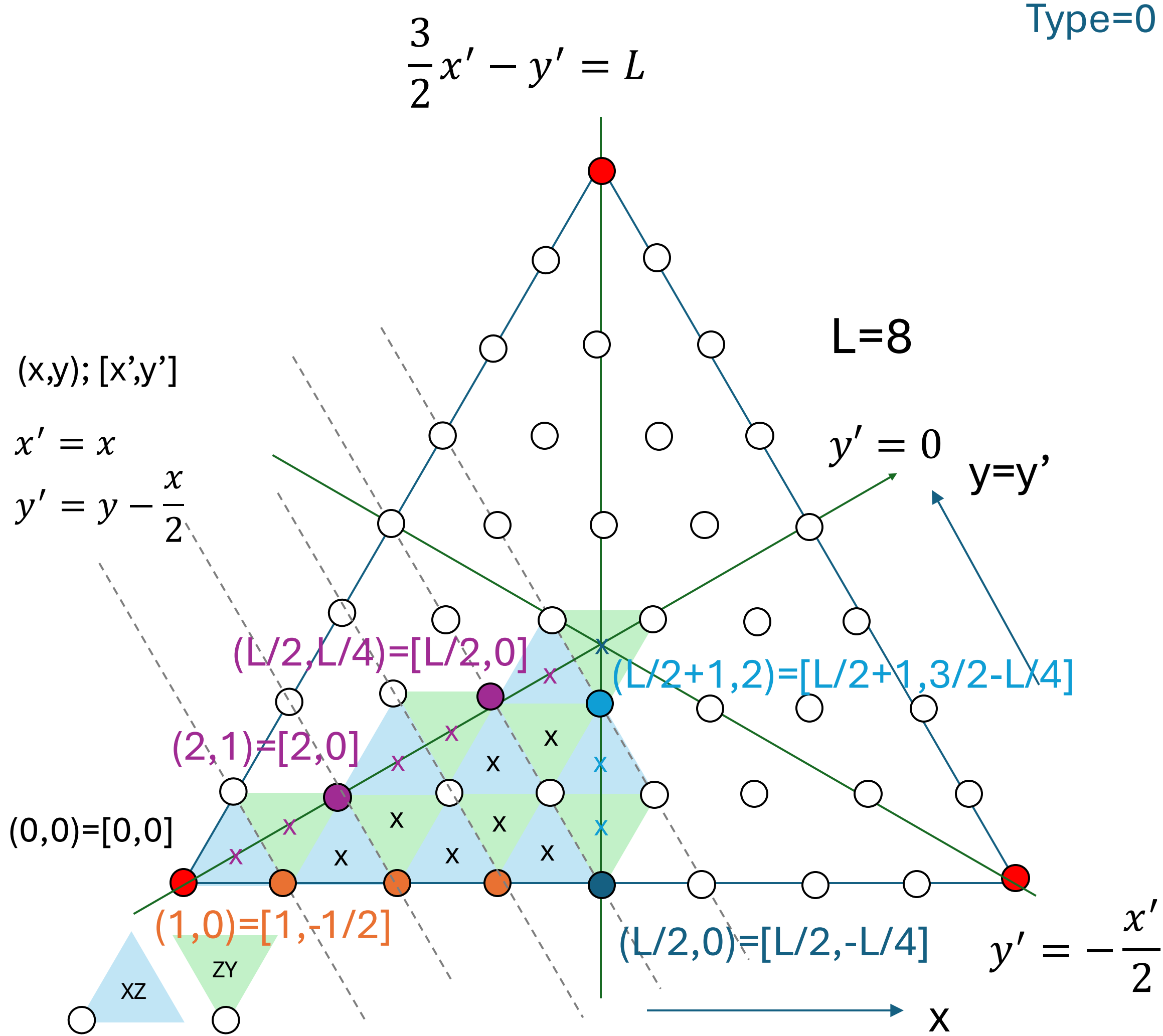
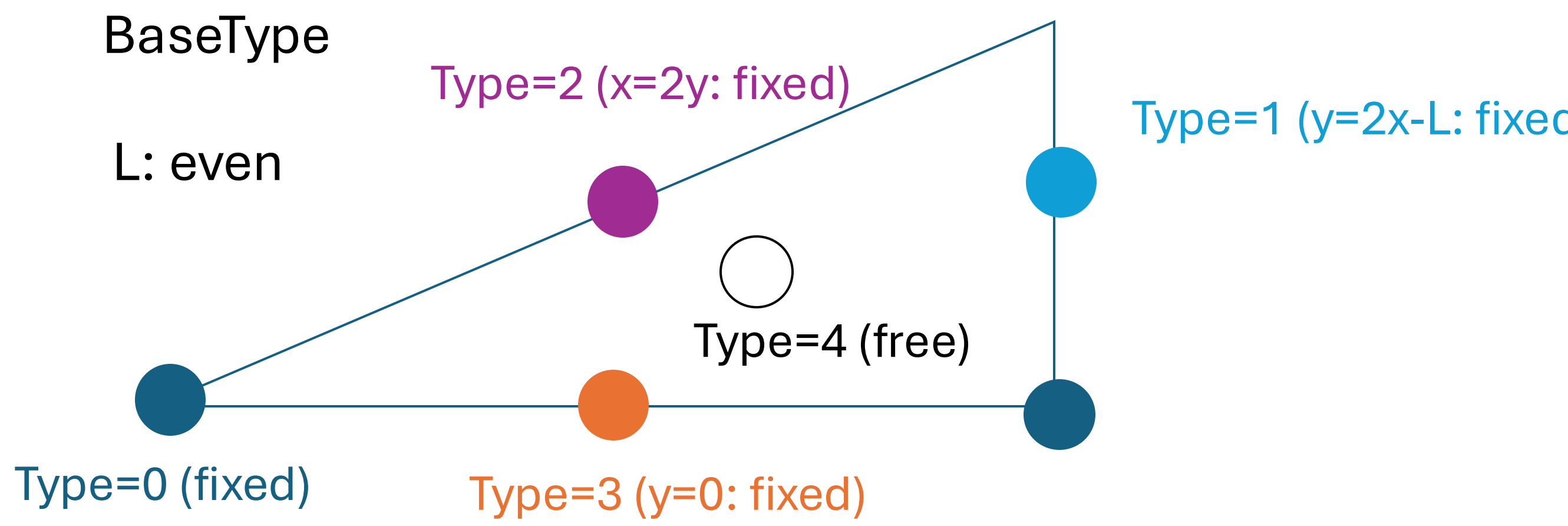
$$s_3 \equiv \frac{2}{\sqrt{5}} = 0.894427$$





BaseType

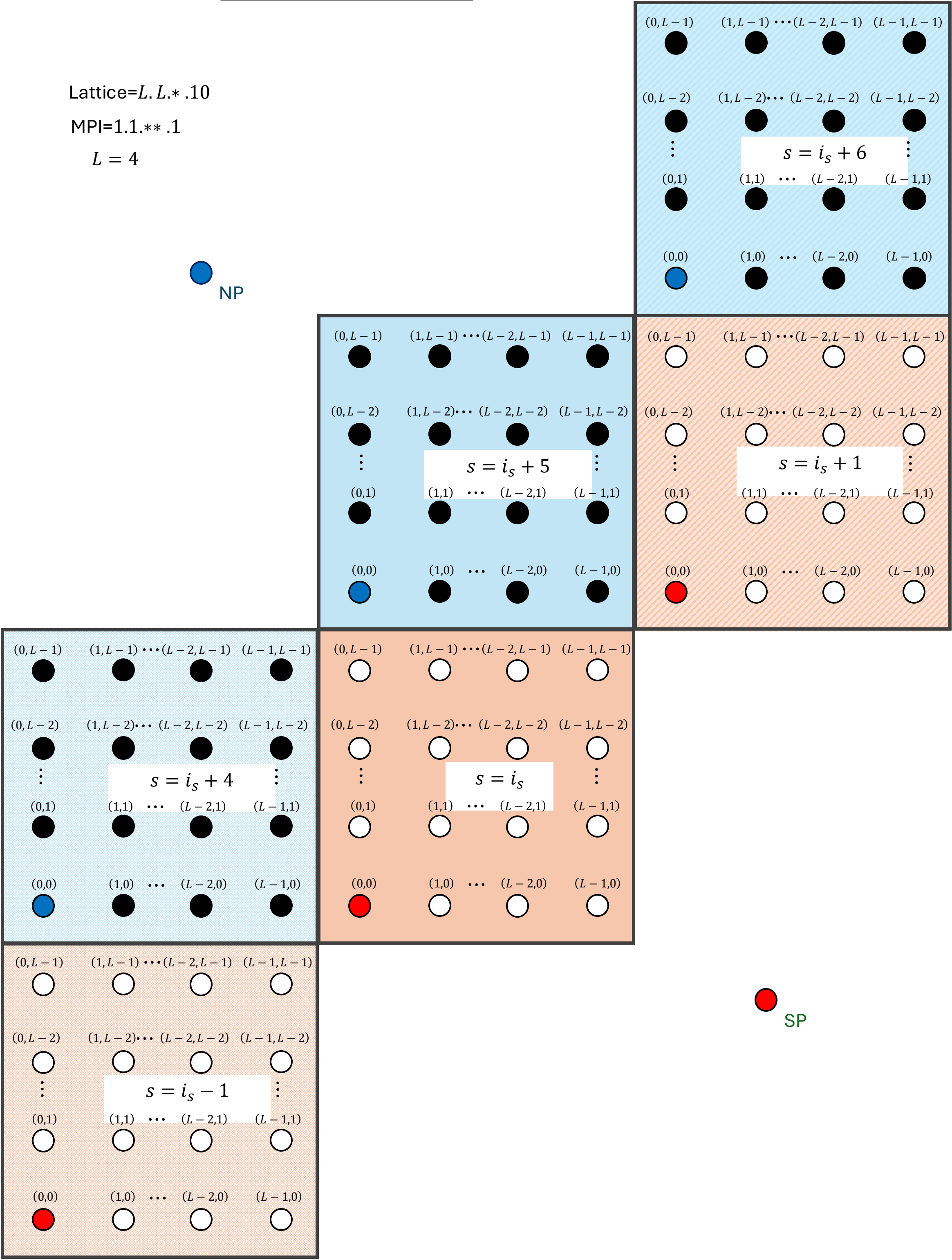
L: even



Southern communication

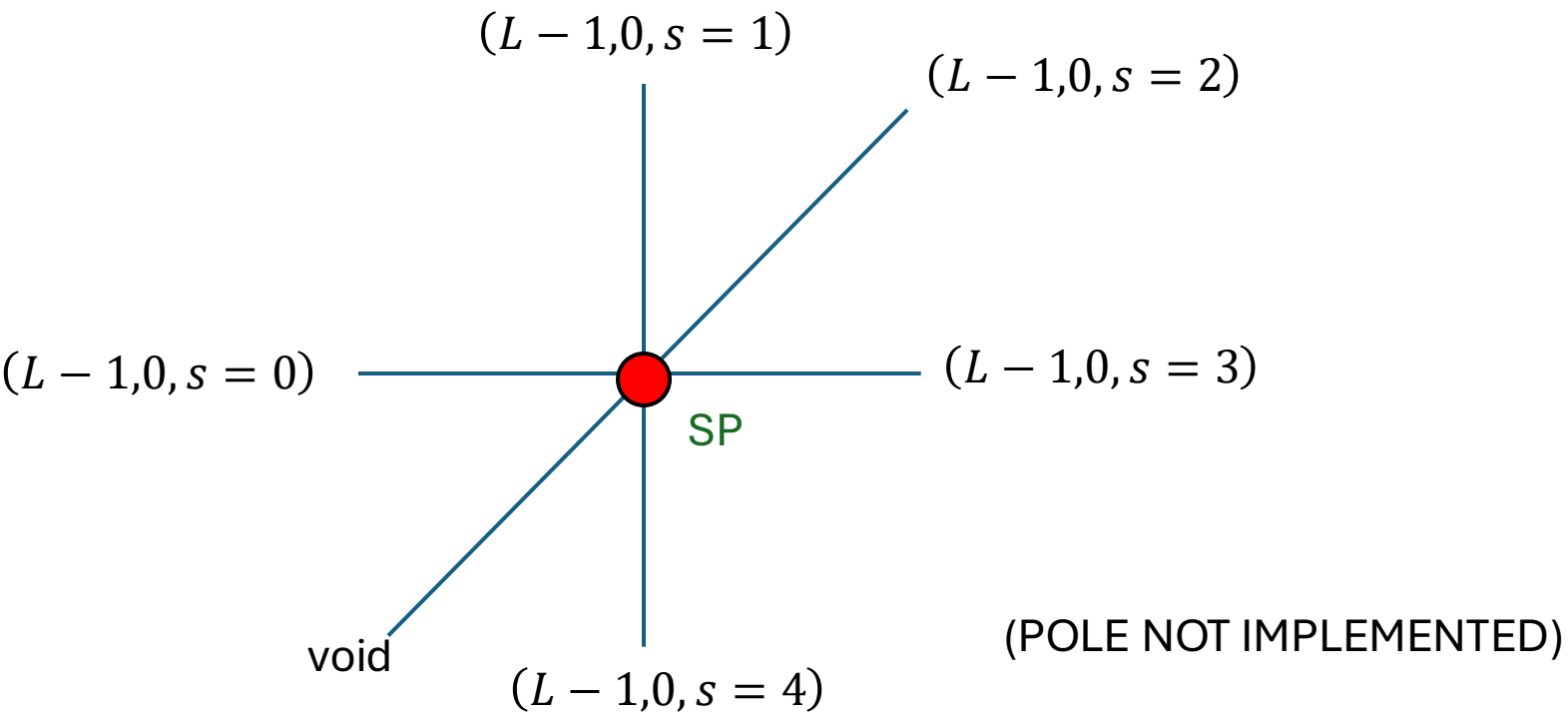
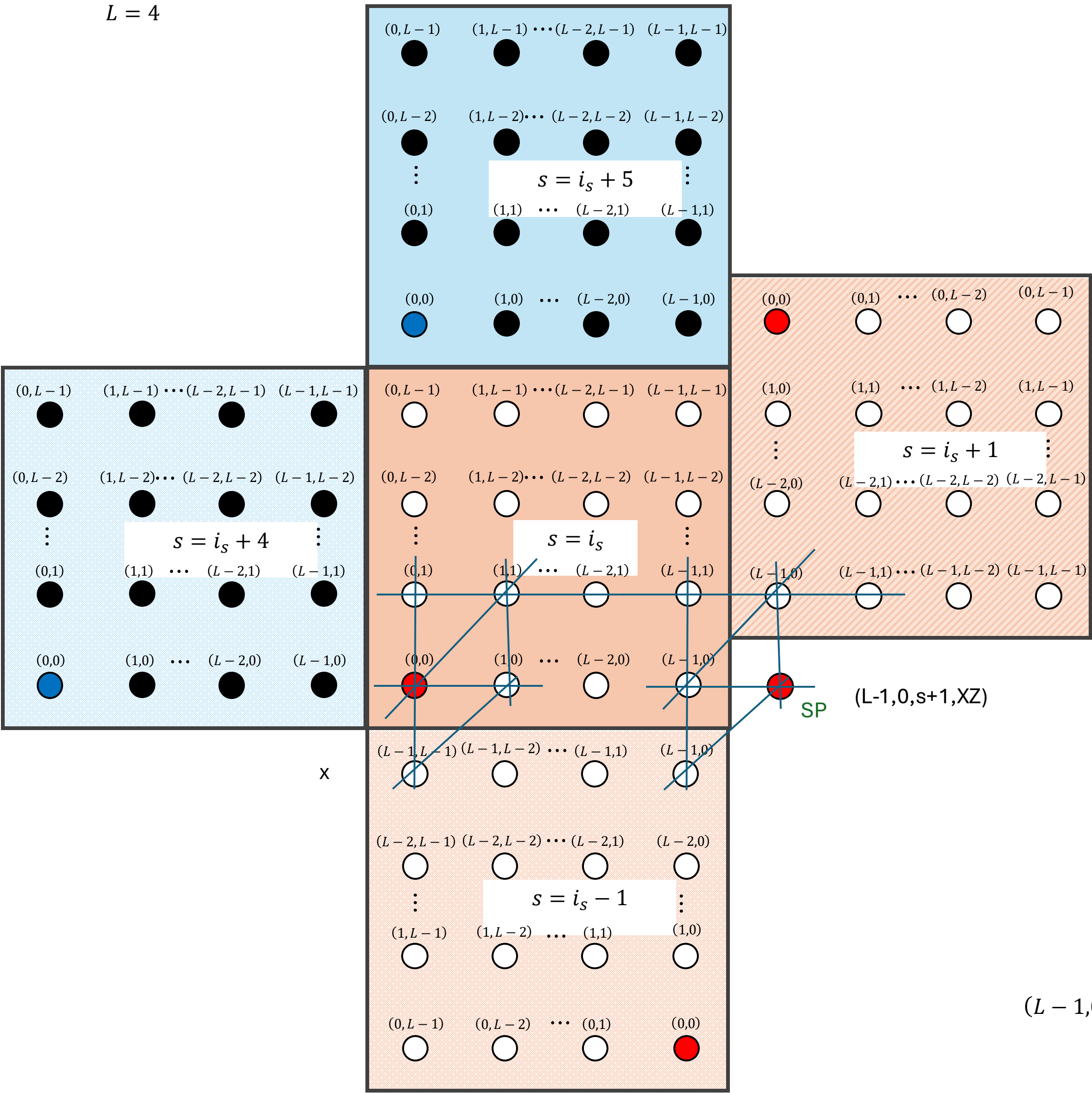
Lattice= $L.L.*.10$
MPI=1.1.**.1
 $L = 4$

NP



Southern communication

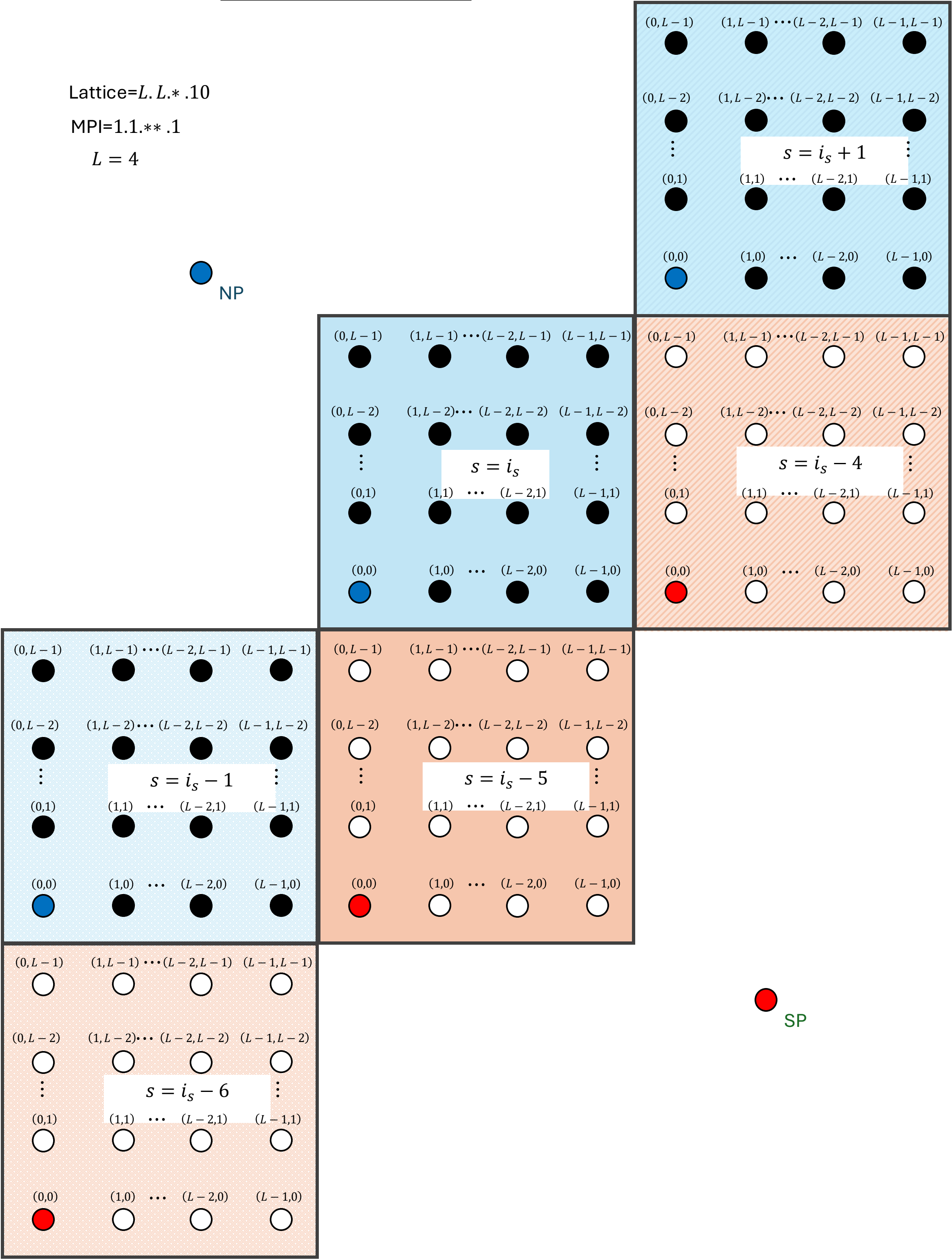
Lattice= $L.L.*.10$
MPI= $1.1.**.1$
 $L = 4$



Northern communication

Lattice= $L.L.*.10$
MPI= $1.1.*.1$
 $L = 4$

NP



SP

