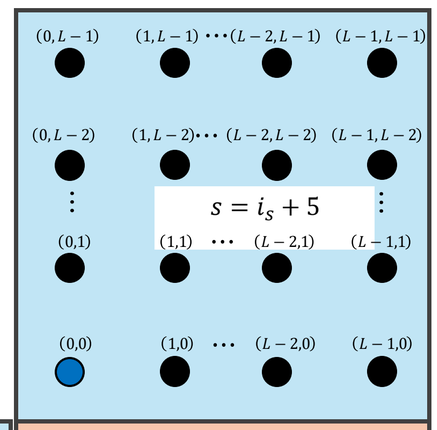
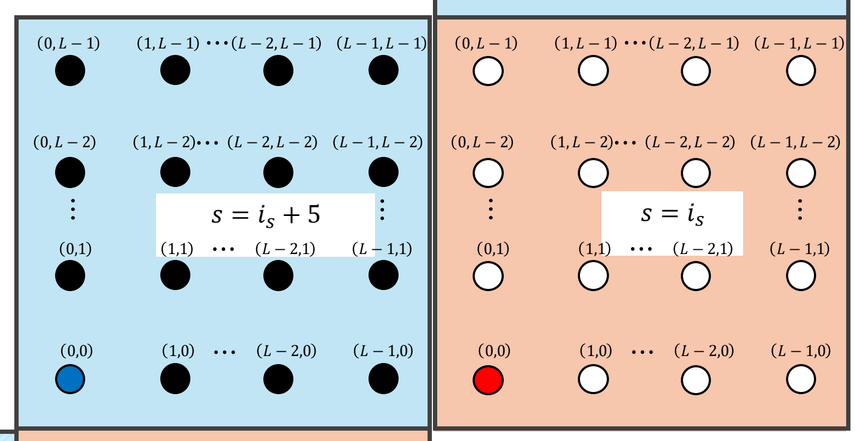


$p_{10} \equiv (s_3c_2, s_3s_2, c_3)$

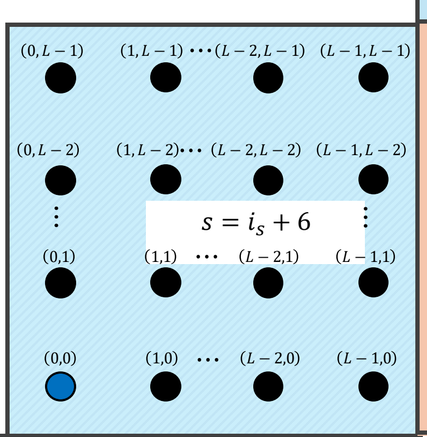


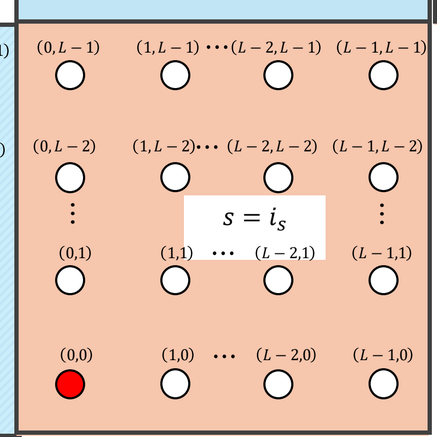
NP

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

$p_9 \equiv (s_3c_1, s_3s_1, c_3)$

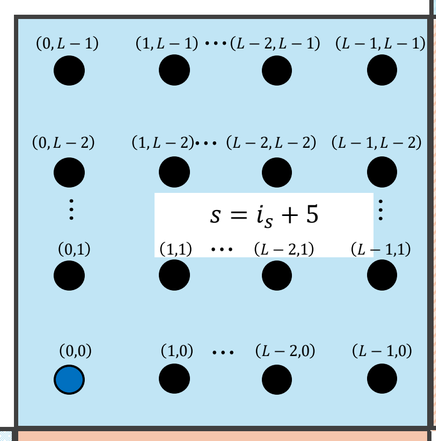
$p_5 \equiv (-s_3c_1, s_3s_1, -c_3)$

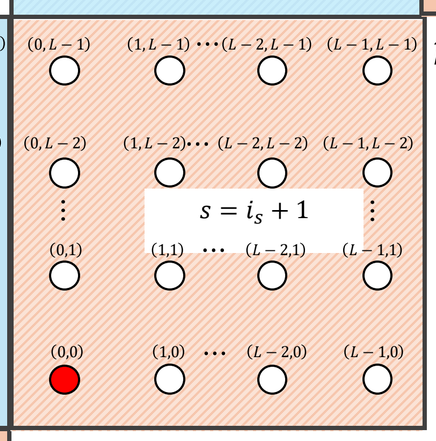




$p_8 \equiv (s_3, 0, c_3)$

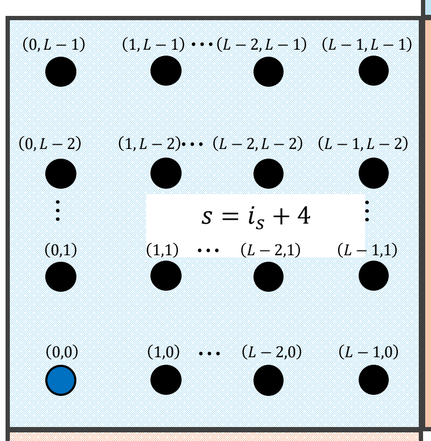
$p_4 \equiv (-s_3c_2, s_3s_2, -c_3)$

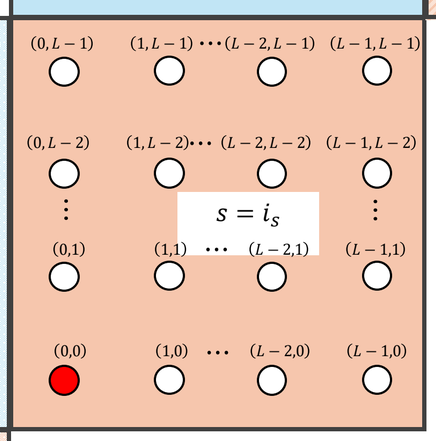




$p_7 \equiv (s_3c_1, -s_3s_1, c_3)$

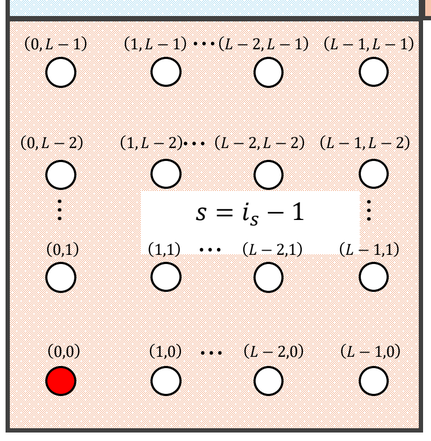
$p_3 \equiv (-s_3c_2, -s_3s_2, -c_3)$





$p_6 \equiv (s_3c_2, -s_3s_2, c_3)$

$p_2 \equiv (-s_3c_1, -s_3s_1, -c_3)$



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

SP

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

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

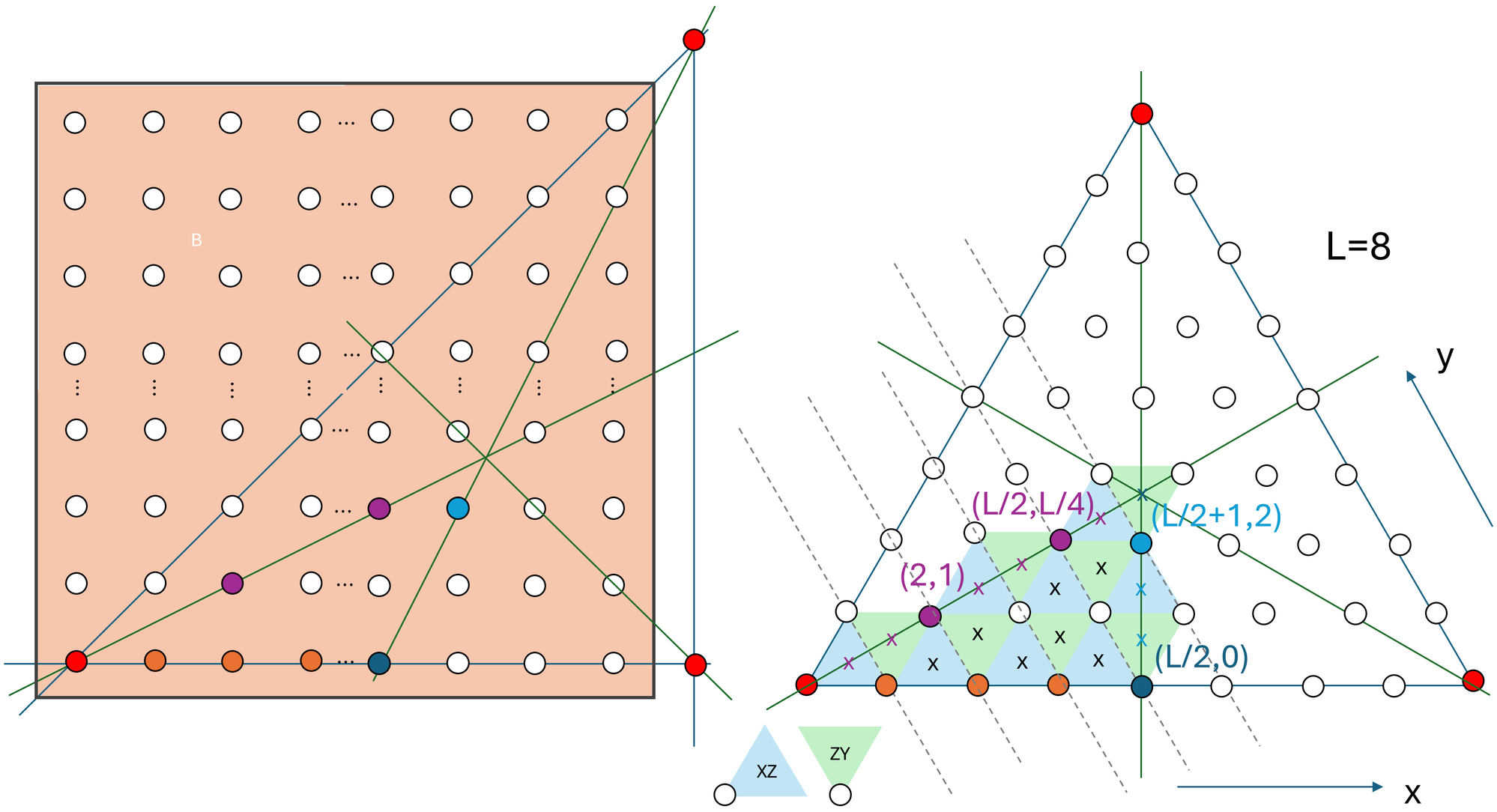
$$s_1 \equiv \sin\frac{2\pi}{5} = \frac{\sqrt{\sqrt{5}\varphi}}{2} = 0.951057$$

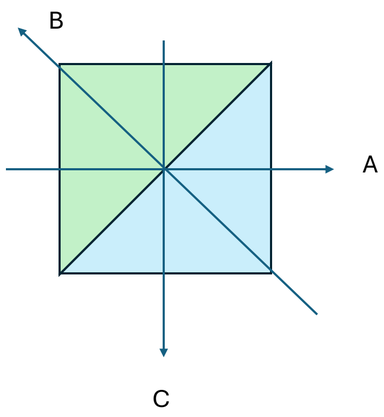
$$c_2 \equiv \cos\frac{4\pi}{5} = -\frac{\varphi}{2} = -0.809017$$

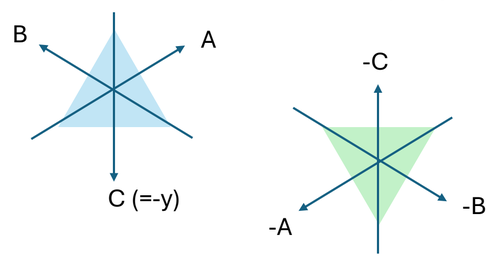
$$s_2 \equiv \sin\frac{4\pi}{5} = \frac{1}{2}\sqrt{\frac{\sqrt{5}}{\varphi}} = 0.587785$$

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

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





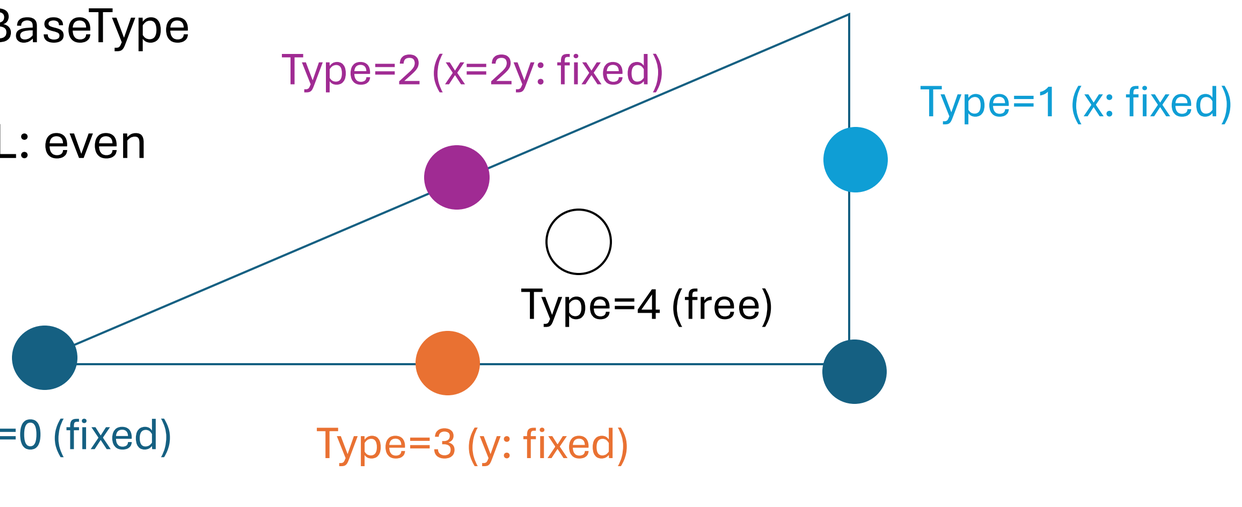


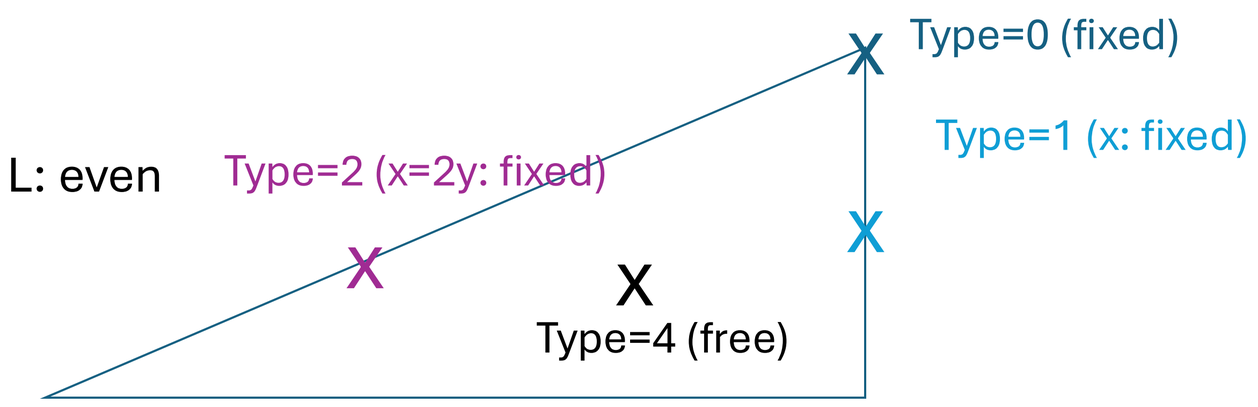
fund: $0 \le x - 2y$

$2x - y \le L$

BaseType

L: even



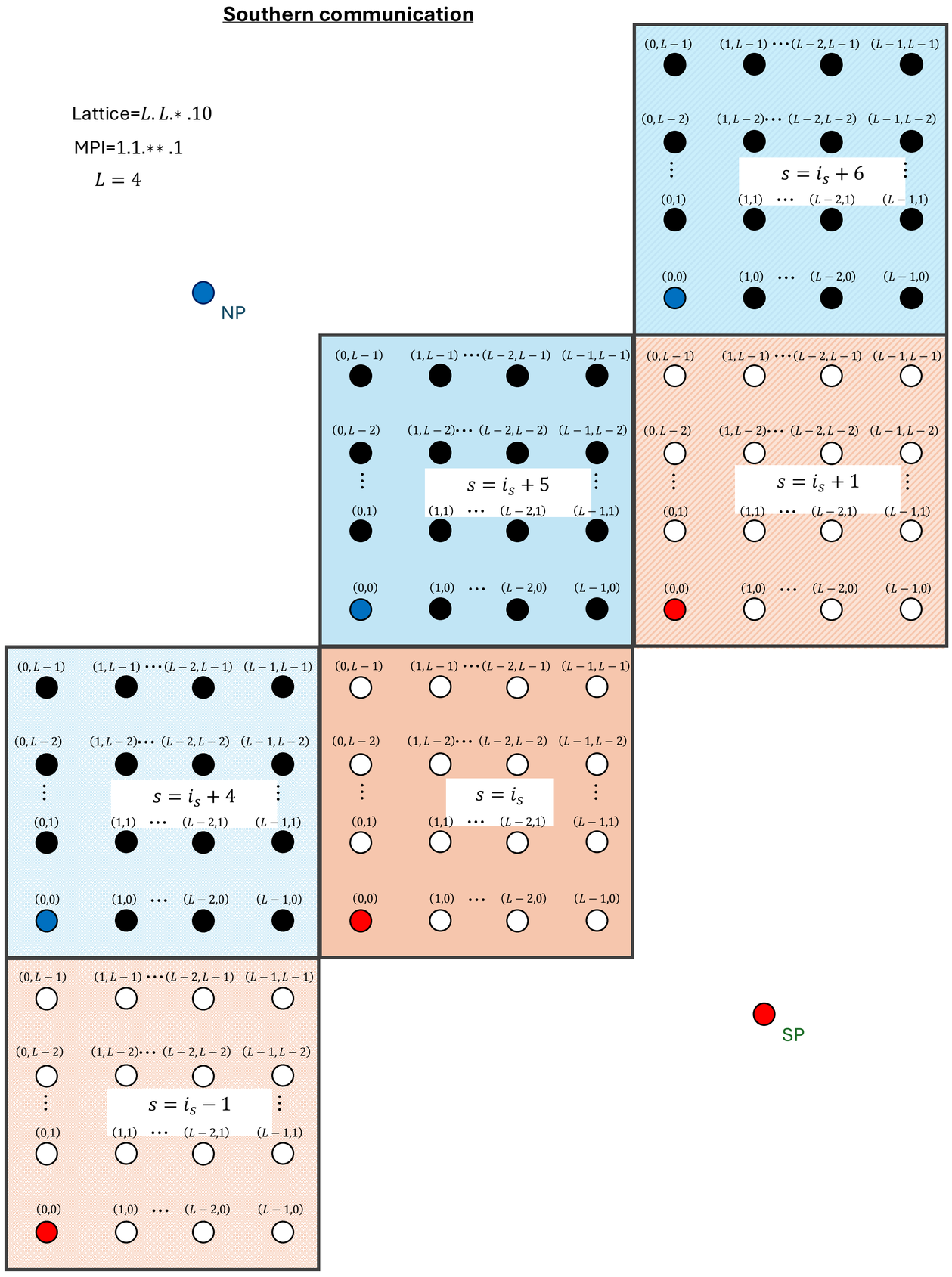


Southern communication

Lattice=$L.L.*.10$

MPI=1.1.**.1

$L = 4$

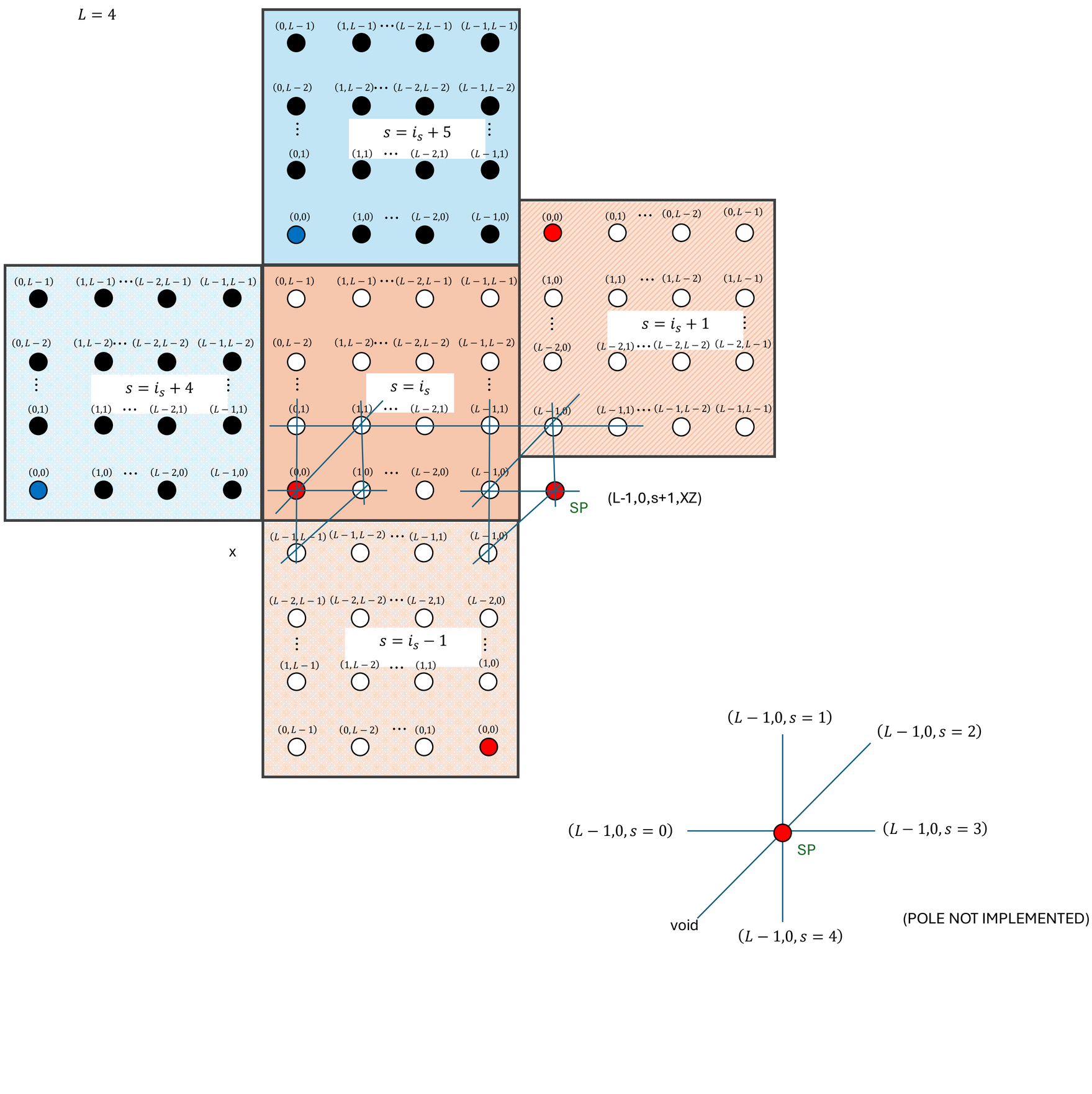


Southern communication

Lattice=$L.L.*$ .10

MPI=1.1.** .1

$L = 4$

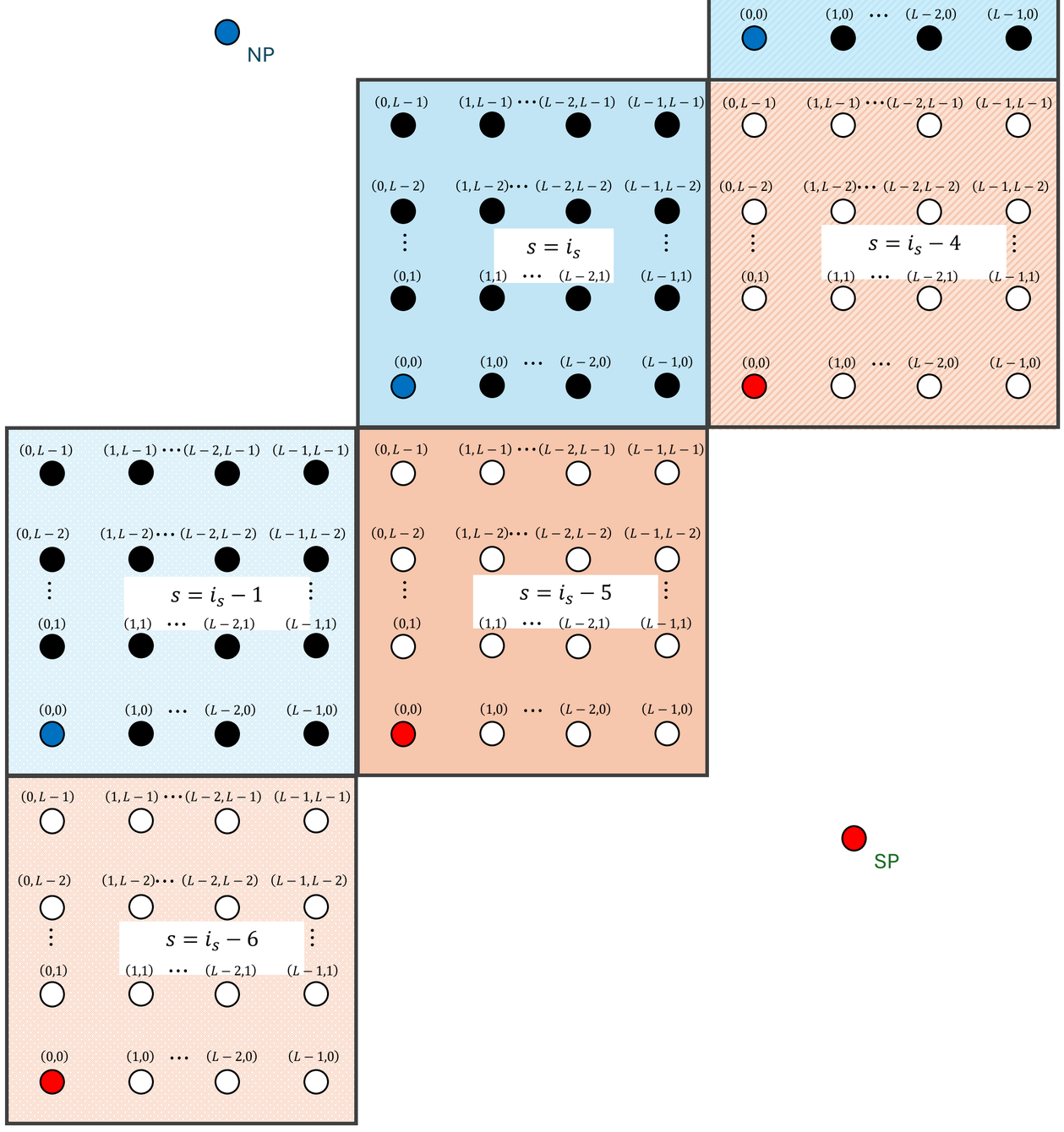


Northern communication

Lattice=$L.L.*.10$

MPI=1.1.**.1

$L = 4$



Northern communication

Lattice=$L.L.*.10$

MPI=1.1.**.1

$L = 4$