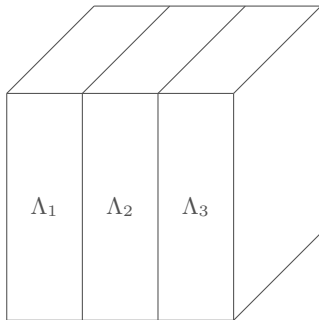
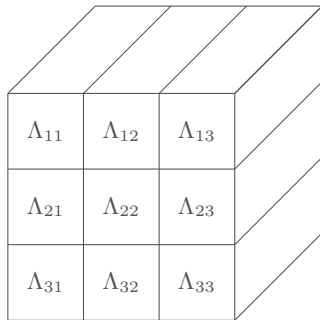


Parallelization in *CosmoLattice*

Parallelization in one direction



Parallelization in two directions



Parallelization in *CosmoLattice*

N : # lattice points, n_p = # of processes

Parallelization 1D: $N = m \cdot n_p$, $m \in \mathbb{N}$

Parallelization 2D: $N = m_1 \cdot n_p$, $m_1 \in \mathbb{N}$
 $= m_2 \cdot n_p$, $m_2 \in \mathbb{N}$

Example: $N = 50$

$n_p = 2$	$n_p = 2, (2, 1)$	$n_p = 20, (10, 2)$	$n_p = 125, (25, 5)$
$n_p = 5$	$n_p = 4, (2, 2)$	$n_p = 25, (5, 5)$	$n_p = 250, (25, 10)$
$n_p = 10$	$n_p = 5, (5, 1)$	$n_p = 50, (10, 5)$	$n_p = 625, (25, 25)$
$n_p = 25$	$n_p = 10, (5, 2)$	$n_p = 100, (10, 10)$	

Thanks!