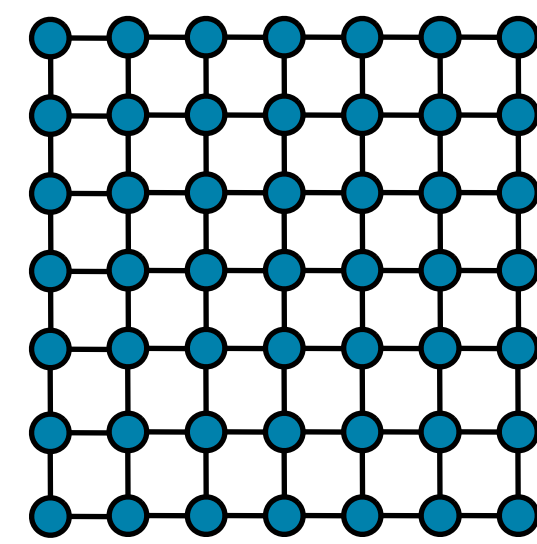
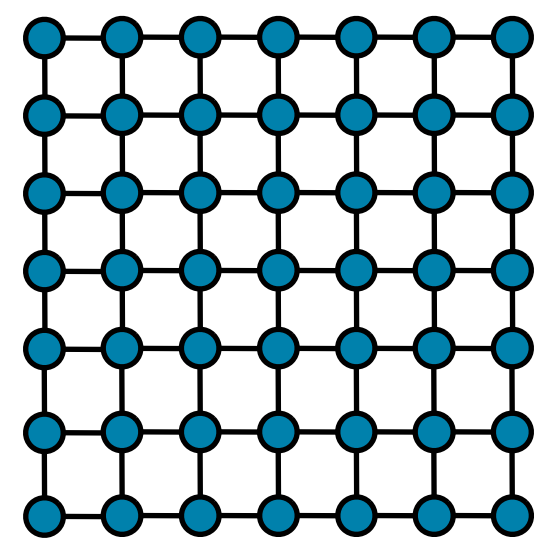
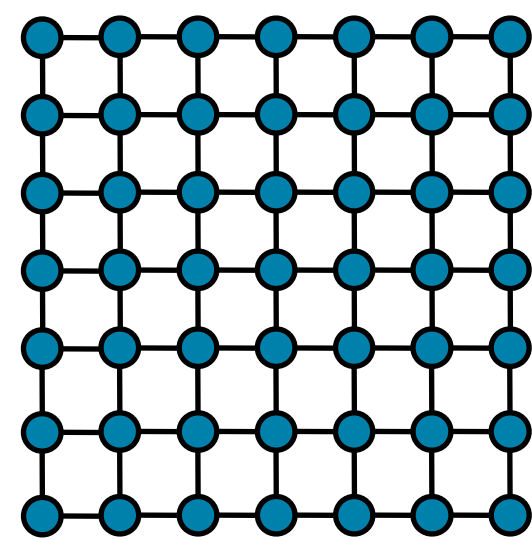
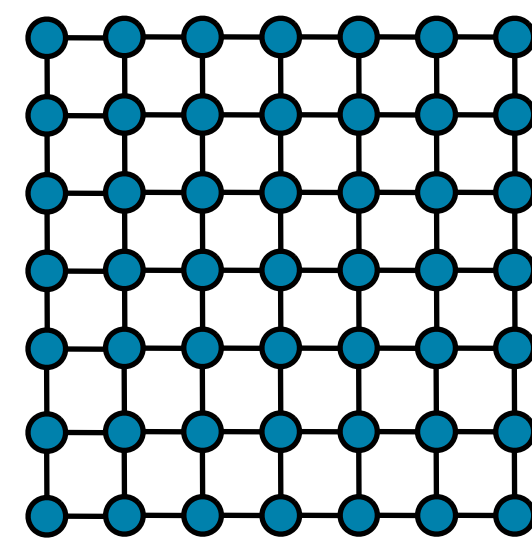


HISQ MG ALGORITHM

HISQ



$B = 2^4$, $N_v=24$
dof preserving

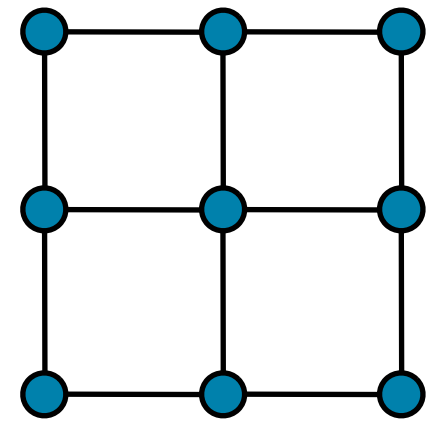
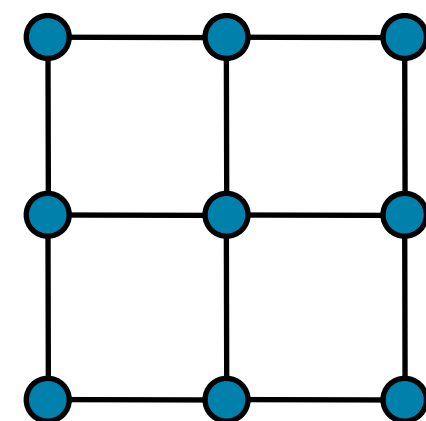


First “coarsening” is transformation to block-preconditioned system

Block-preconditioned system

$N_v=96$

First real coarse grid



$N_v=96$



Staggered has 4-fold degeneracy

- Need 4x null space vectors ($N_v=24 \rightarrow 96$)
- Much more memory intensive