



In blue the fine

$M=8 \times N=8$  mesh.

In black its ghost cells

In red the coarse

$M=4 \times N=4$  mesh

In green its ghost cells

For the probing operator

$$\epsilon_{2i:2i+1, 2j:2j+1}^{2h} = \epsilon_{i,j}^{2h}$$

$$i = 1, 2, \dots, M^{2h}$$

$$j = 1, 2, \dots, M^{2h}$$