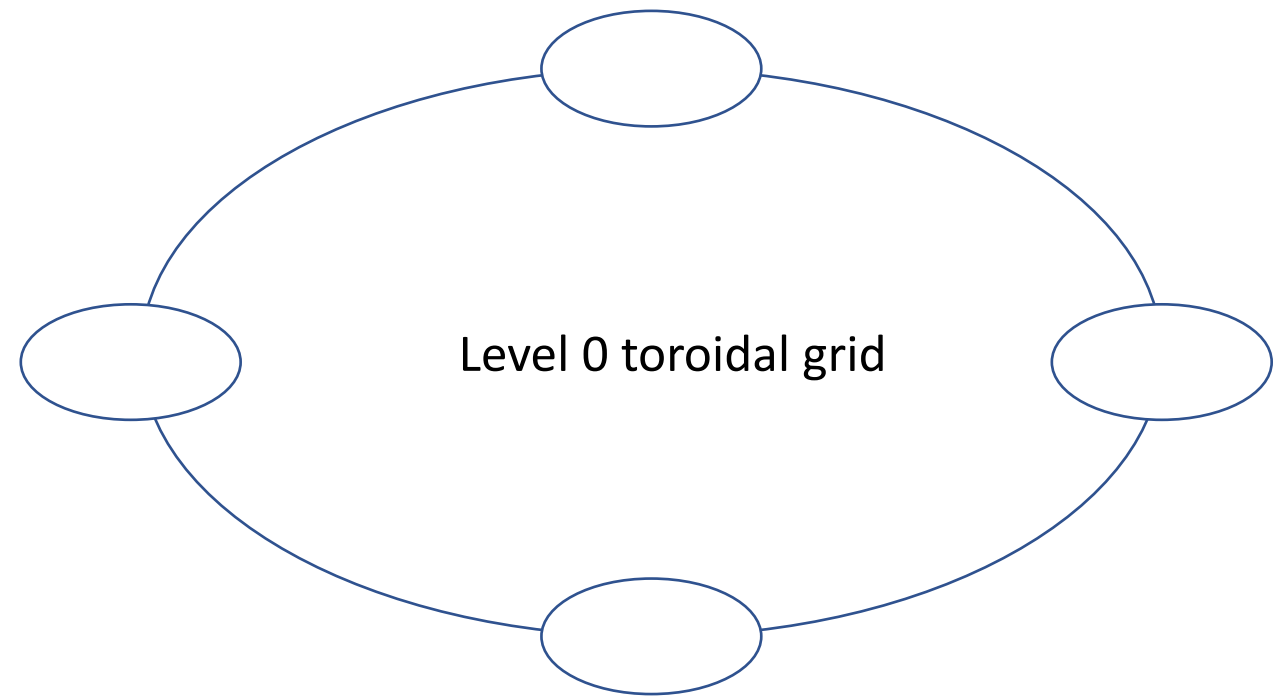
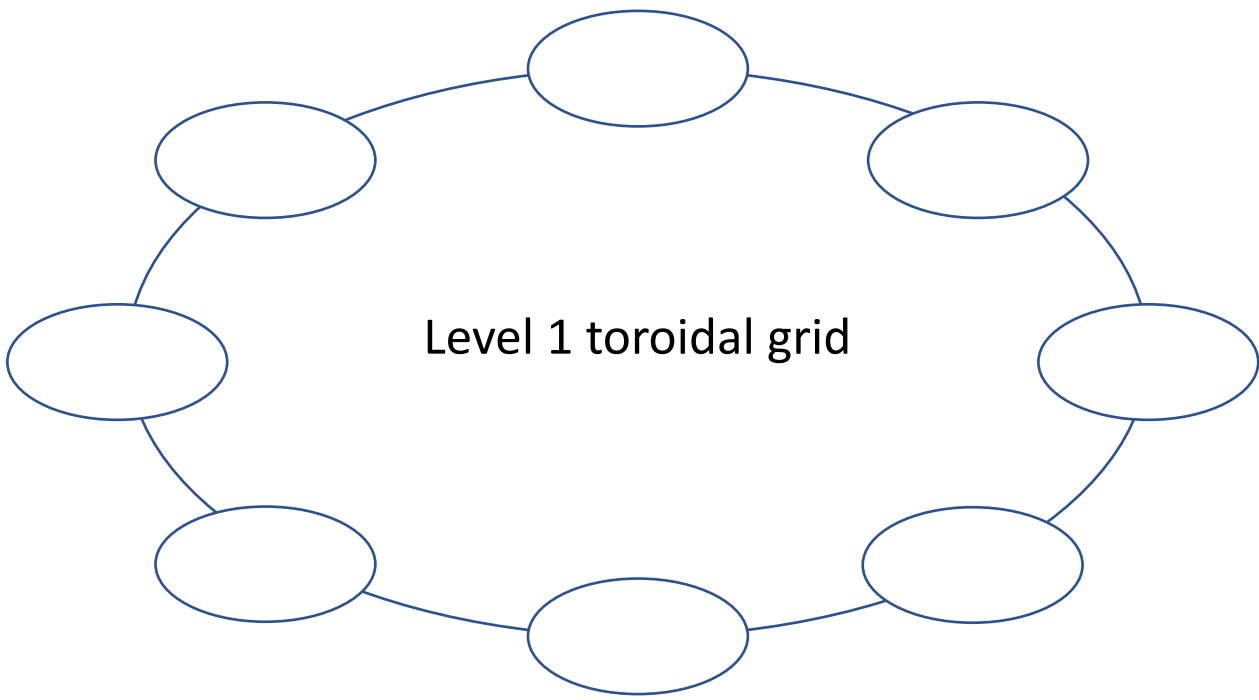


BMG

Block Multigrid

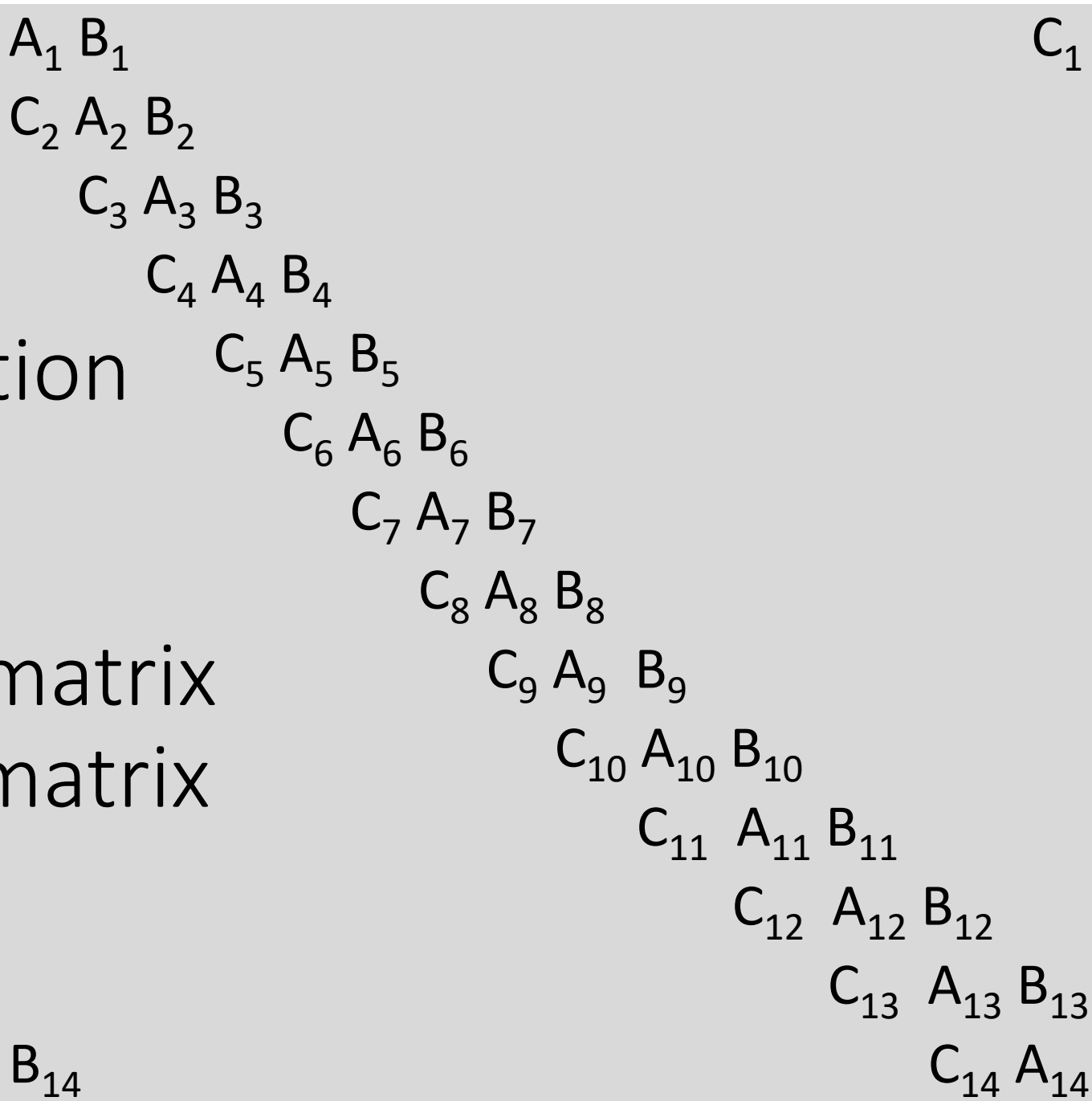
Number of iterations

	BJ	BMG
Regtests/pellet	98	8
Regtests/RMP_nonlin	1523	46
128K/Run02 (16 planes)	171	26
m3dnl_fat/Jin-3	153	41
NSTX-U/L06-560	843	3



Interpolation Matrix

1 : block matrix
 $\frac{1}{2}$: block matrix



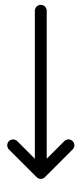
1					
$\frac{1}{2}$	$\frac{1}{2}$				
	1				
	$\frac{1}{2}$	$\frac{1}{2}$			
		1			
		$\frac{1}{2}$	$\frac{1}{2}$		
			1		
			$\frac{1}{2}$	$\frac{1}{2}$	
				1	
				$\frac{1}{2}$	$\frac{1}{2}$
					1
$\frac{1}{2}$					$\frac{1}{2}$

memory issue I

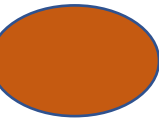
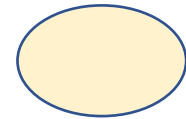
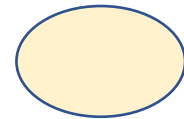
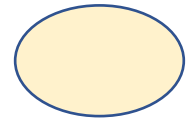
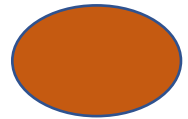
30

P0 P1 P2 P3

8 8 7 7



8 7 8 7



memory issue II

Interpolation
Matrix

1 : block matrix

$\frac{1}{2}$: block matrix

1									
$\frac{1}{2}$	$\frac{1}{2}$								
	1								
	$\frac{1}{2}$	$\frac{1}{2}$							
		1							
		$\frac{1}{2}$	$\frac{1}{2}$						
			1						
			$\frac{1}{2}$	$\frac{1}{2}$					
				1					
				$\frac{1}{2}$	$\frac{1}{2}$				
					1				
$\frac{1}{2}$								1	
								$\frac{1}{2}$	$\frac{1}{2}$

Tune BMG parameters

- Smoother
- Loose convergence criterion on the coarse grid