LSFEM: AMG Preconditioning Effectiveness

Legend:
- P_1 (RG)
- P_1 (PG)
- P_2 (RG)
- P_2 (PG)

80-93% iteration reduction with AMG

Y-axis: Number of iterations
X-axis: Degree of Freedoms

Data labels:
10, 10
15, 16
28, 26
26, 26
43, 42
72, 70
44, 45
126, 123
79, 81
235, 230

CG (None) on Regular Grids (RG):

ML5:	$P_1P_1 = 32$	$P_2P_2 = 69$
ML7:	$P_1P_1 = 128$	$P_2P_2 = 285$
ML9:	$P_1P_1 = 512$	$P_2P_2 = 1160$

CG (None) on Perturbed Grids (PG):

ML5:	$P_1P_1 = 67$	$P_2P_2 = 151$
ML7:	$P_1P_1 = 269$	$P_2P_2 = 637$
ML9:	$P_1P_1 = 1085$	$P_2P_2 = 2620$