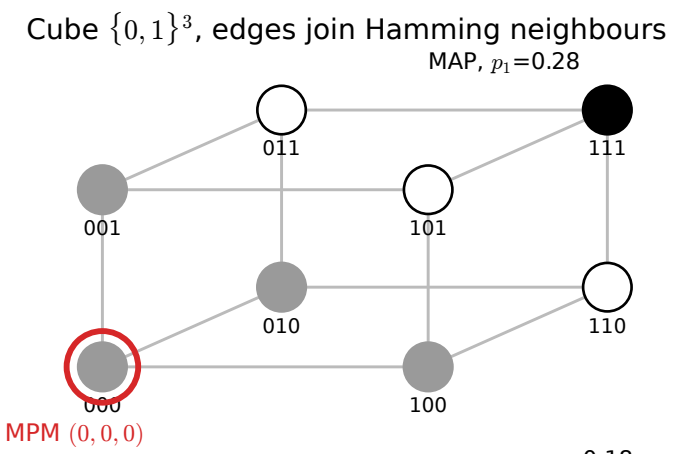
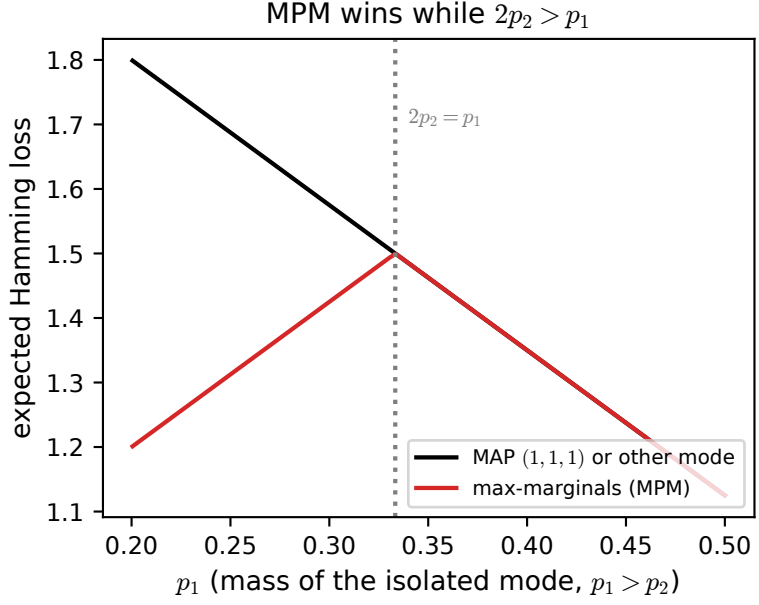

Cube $\{0,1\}^3$, edges join Hamming neighbours
MAP, p_1=0.28
011
111
001
101
010
110
000
100
MPM $(0,0,0)$
gray: p_2=0.18
white: probability 0


MPM wins while $2p_2 > p_1$
expected Hamming loss
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
$2p_2 = p_1$
MAP $(1,1,1)$ or other mode
max-marginals (MPM)
0.20
0.25
0.30
0.35
0.40
0.45
0.50
p_1 (mass of the isolated mode, $p_1 > p_2$)