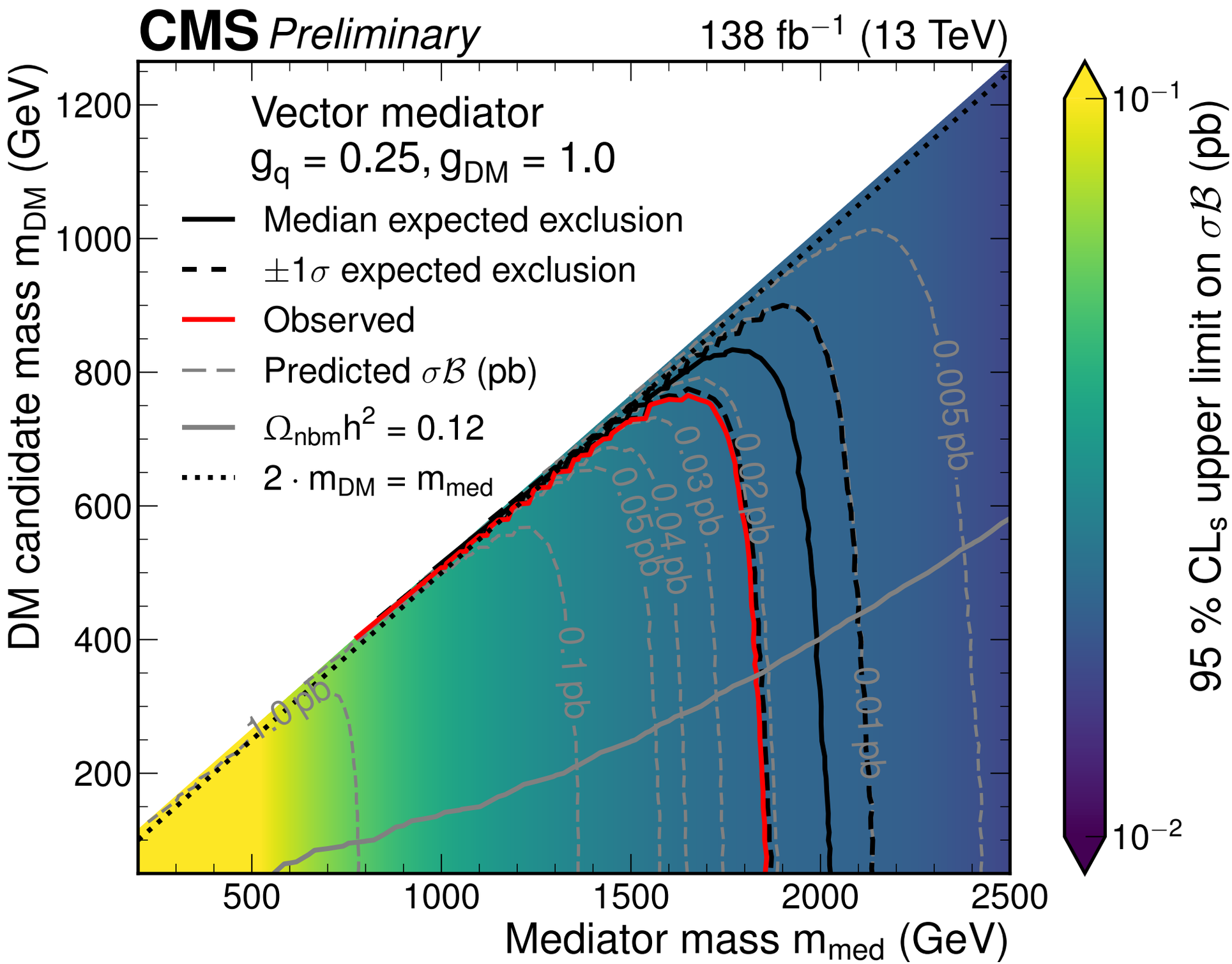
CMS Preliminary
138 fb^{-1} (13 TeV)
Vector mediator
g_q = 0.25, g_{DM} = 1.0
Median expected exclusion
$\pm 1\sigma$ expected exclusion
Observed
Predicted $\sigma\mathcal{B}$ (pb)
$\Omega_{nbm}h^2$ = 0.12
$2 \cdot m_{DM} = m_{med}$
1.0 pb
0.1 pb
0.05 pb
0.04 pb
0.03 pb
0.02 pb
0.01 pb
0.005 pb
DM candidate mass m_{DM} (GeV)
Mediator mass m_{med} (GeV)
95 % CL_s upper limit on $\sigma\mathcal{B}$ (pb)
200
400
600
800
1000
1200
500
1000
1500
2000
2500
10^{-1}
10^{-2}