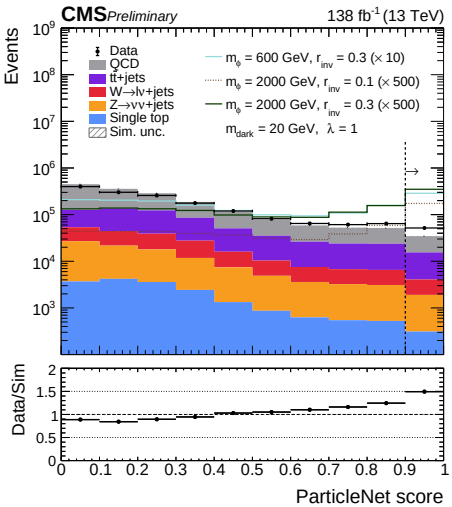
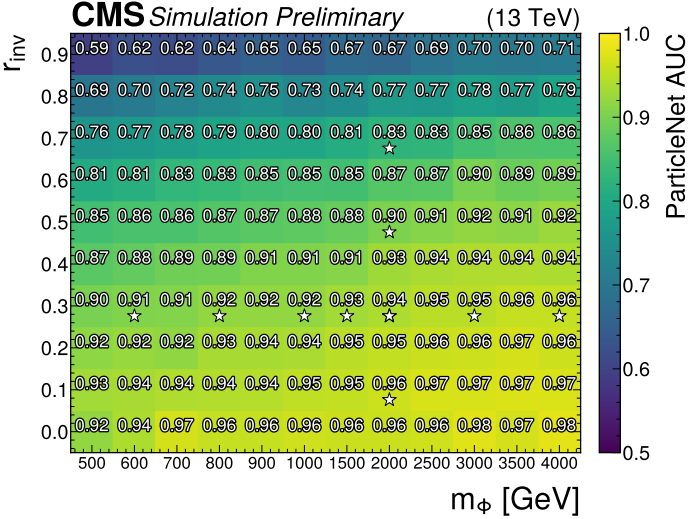

CMS Preliminary
138 fb^{-1} (13 TeV)
Events
Data
QCD
tt+jets
W→lν+jets
Z→νν+jets
Single top
Sim. unc.
m_ϕ = 600 GeV, r_{inv} = 0.3 (× 10)
m_ϕ = 2000 GeV, r_{inv} = 0.1 (× 500)
m_ϕ = 2000 GeV, r_{inv} = 0.3 (× 500)
m_{dark} = 20 GeV, λ = 1
Data/Sim
ParticleNet score


CMS Simulation Preliminary
(13 TeV)
r_{inv}
0.0: 0.92 0.94 0.97 0.96 0.96 0.96 0.96 0.96 0.96 0.98 0.97 0.98
0.1: 0.93 0.94 0.94 0.94 0.94 0.95 0.95 0.96 0.97 0.97 0.97 0.97
0.2: 0.92 0.92 0.92 0.93 0.94 0.94 0.95 0.95 0.96 0.96 0.97 0.96
0.3: 0.90 0.91 0.91 0.92 0.92 0.92 0.93 0.94 0.95 0.95 0.96 0.96
0.4: 0.87 0.88 0.89 0.89 0.91 0.91 0.91 0.93 0.94 0.94 0.94 0.94
0.5: 0.85 0.86 0.86 0.87 0.87 0.88 0.88 0.90 0.91 0.92 0.91 0.92
0.6: 0.81 0.81 0.83 0.83 0.85 0.85 0.85 0.87 0.87 0.90 0.89 0.89
0.7: 0.76 0.77 0.78 0.79 0.80 0.80 0.81 0.83 0.83 0.85 0.86 0.86
0.8: 0.69 0.70 0.72 0.74 0.75 0.73 0.74 0.77 0.77 0.78 0.77 0.79
0.9: 0.59 0.62 0.62 0.64 0.65 0.65 0.67 0.67 0.69 0.70 0.70 0.71
m_Φ [GeV]
ParticleNet AUC