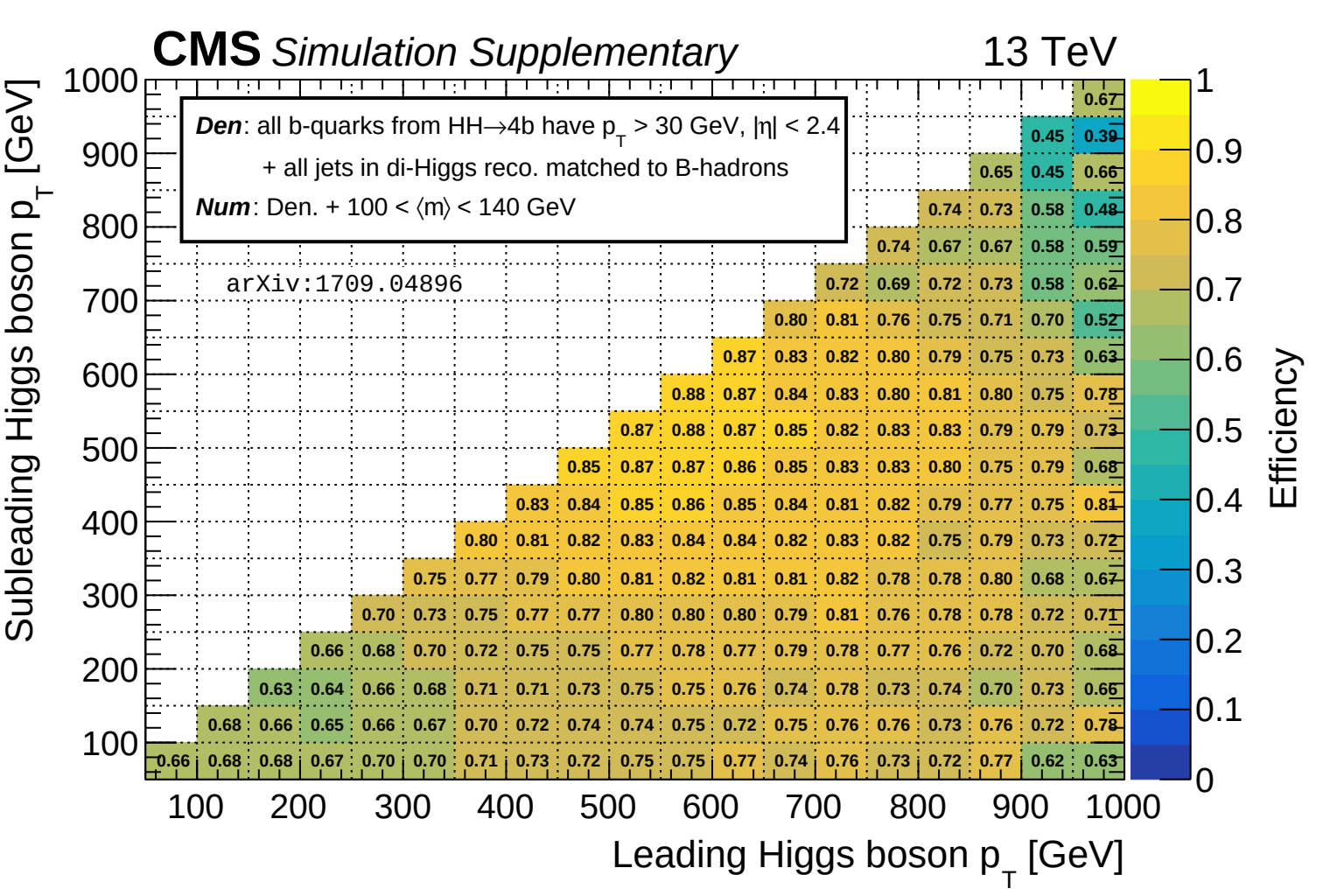
CMS Simulation Supplementary
13 TeV
Den: all b-quarks from HH→4b have p_T > 30 GeV, |η| < 2.4
+ all jets in di-Higgs reco. matched to B-hadrons
Num: Den. + 100 < ⟨m⟩ < 140 GeV
arXiv:1709.04896
Subleading Higgs boson p_T [GeV]
Leading Higgs boson p_T [GeV]
Efficiency
100 200 300 400 500 600 700 800 900 1000
0.67
0.45 0.39
0.65 0.45 0.66
0.74 0.73 0.58 0.48
0.74 0.67 0.67 0.58 0.59
0.72 0.69 0.72 0.73 0.58 0.62
0.80 0.81 0.76 0.75 0.71 0.70 0.52
0.87 0.83 0.82 0.80 0.79 0.75 0.73 0.63
0.88 0.87 0.84 0.83 0.80 0.81 0.80 0.75 0.78
0.87 0.88 0.87 0.85 0.82 0.83 0.83 0.79 0.79 0.73
0.85 0.87 0.87 0.86 0.85 0.83 0.83 0.80 0.75 0.79 0.68
0.83 0.84 0.85 0.86 0.85 0.84 0.81 0.82 0.79 0.77 0.75 0.81
0.80 0.81 0.82 0.83 0.84 0.84 0.82 0.83 0.82 0.75 0.79 0.73 0.72
0.75 0.77 0.79 0.80 0.81 0.82 0.81 0.81 0.82 0.78 0.78 0.80 0.68 0.67
0.70 0.73 0.75 0.77 0.77 0.80 0.80 0.80 0.79 0.81 0.76 0.78 0.78 0.72 0.71
0.66 0.68 0.70 0.72 0.75 0.75 0.77 0.78 0.77 0.79 0.78 0.77 0.76 0.72 0.70 0.68
0.63 0.64 0.66 0.68 0.71 0.71 0.73 0.75 0.75 0.76 0.74 0.78 0.73 0.74 0.70 0.73 0.65
0.68 0.66 0.65 0.66 0.67 0.70 0.72 0.74 0.74 0.75 0.72 0.75 0.76 0.76 0.73 0.76 0.72 0.78
0.66 0.68 0.68 0.67 0.70 0.70 0.71 0.73 0.72 0.75 0.75 0.77 0.74 0.76 0.73 0.72 0.77 0.62 0.63
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1