

138 fb⁻¹ (13 TeV)

CMS

Simulation Preliminary

Signal efficiency

1.0

0.8

0.6

0.4

0.2

0.0

Signal: $W \rightarrow cb$ (matched)

— vs. $W \rightarrow cb$ (unmatched) (AUC: 0.861)

— vs. $W \rightarrow ud(us) + b/b\bar{b}$ (AUC: 0.935)

— vs. $W \rightarrow ud(us) + \text{non-}b/b\bar{b}$ (AUC: 0.965)

— vs. $W \rightarrow cs(cd) + b/b\bar{b}$ (AUC: 0.909)

— vs. $W \rightarrow cs(cd) + c/c\bar{c}$ (AUC: 0.919)

— vs. $W \rightarrow cs(cd) + \text{light}$ (AUC: 0.920)

10⁻¹

10⁰

Background efficiency

