

Expanding SR to include Single Top

- Have copied across Cedric's privately produced single top DM samples (currently only scalar mediator, and for a different set of mass points to $t\bar{t}$ DM)
- Plan to use arXiv:1903.11144 as a starting point, then train a single NN to separate $t\bar{t}$ DM, st DM and background
- This uses a ≥ 1 jet cut, and only requires a btag in SF channels
- Cedric has asked me to check how much we gain from not using a btag cut in the emu channel, as his ntuples currently require this
- Improvement in S/\sqrt{B} is 8-13%

b-tag multiplicity

