b-tag Discriminator 25000 Z 20000 25000 CMS, 19.7 fb⁻¹ at $\sqrt{s} = 8 \text{ TeV}$ Data $|Z/\gamma^* \rightarrow ee/\mu\mu|$ tt Signal $|Z/\gamma^* \rightarrow \tau\tau|$ tt Other $t\bar{t}+Z/W/\gamma$ 15000 Single Top Diboson W+Jets **QCD** Multijet 10000 5000 1.4 1.2 8.0 0.6 0.2 0.4 0.6 8.0 b-tag Discriminator