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Measurement of properties of additional jets in top quark pair decays using $e\mu$ events with 2 b-jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector JACQUELYN BROSAMER, Lawrence Berkeley Natl Lab, ATLAS COLLABORATION — The transverse momentum and multiplicity of additional jets produced in association with top quark pairs are measured in 20.1 fb^{-1} proton-proton collisions at $\sqrt{s} = 8$ TeV collected in 2012 with the ATLAS experiment at the LHC. Jets are selected from $t\bar{t}$ events with an opposite-charge $e\mu$ pair and at least two b-tagged jets in the final state. The reconstructed jets are fully corrected for detector effects to obtain particle-level distributions in the fiducial region. The corrected data are compared to several Monte Carlo models.

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