

Abstract Submitted
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Search for Prompt Lepton-Jets with ATLAS Data SARAH FERGUSON, BERNHARD MEIROSE, HARISANKAR NAMASIVAYAM, JOSEPH IZEN, University of Texas at Dallas, GRYGORII SOKHRANNYI, Jozef Stefan Institute, ATLAS COLLABORATION — A search is presented for a new, dark sector gauge boson with a mass of about $1 \text{ GeV}/c^2$ and decaying to jets of collimated electrons and/or muons. The analysis is performed with data collected by the ATLAS detector at the Large Hadron Collider in protonproton collisions. Results using run 1 data with center-of-mass energy of 8 TeV are presented along with prospects for run 2 data with center-of-mass energy of 13 TeV.

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