

Search for Dark Matter in association with a hadronically decaying Z' vector boson with the ATLAS detector

Thursday 5 April 2018 14:30 (15 minutes)

A search for dark matter pair production in association with a Z' boson in pp collisions, at 13 TeV, using 36.1fb-1 data, recorded with the ATLAS detector is presented. Events are characterised by large missing transverse momentum and a hadronically decaying vector boson reconstructed as either a pair of small-radius jets, or as a single large-radius jet with substructure. Results are interpreted in terms of simplified models which describe the interaction of dark matter and standard model particles.

Primary author: BARNES, Sarah Louise (Shanghai Jiao Tong University (CN))

Presenter: BARNES, Sarah Louise (Shanghai Jiao Tong University (CN))

Session Classification: Open Session A)

Track Classification: Default track