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Highlights on top quark physics with the ATLAS experiment at the LHC

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The large top quark samples collected with the ATLAS experiment at the LHC have yielded measurements of the production cross section of unprecedented precision and in new kinematic regimes. They have also enabled new measurements of top quark properties that were previously inaccessible, enabled the observation of many rare top quark production processes predicted by the Standard Model and boosted searches in the Top sector. In this contribution the highlights of the ATLAS top quark physics program are presented.

Author: HAMPSHIRE, Emily (Royal Holloway, University of London (GB))

Presenter: HAMPSHIRE, Emily (Royal Holloway, University of London (GB))

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