

# XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects



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## Measurements of diffractive physics and soft QCD at ATLAS

*Wednesday, April 14, 2021 11:12 AM (18 minutes)*

In this talk we present various measurements sensitive to non-perturbative physics performed using data collected by the ATLAS experiment at the LHC. Inclusive single diffractive dissociation ( $pp \rightarrow pX$ ) is studied using data collected by the ATLAS experiment at the LHC. The intact proton is reconstructed and measured in the ALFA forward spectrometer, while charged particles from the dissociative system ( $X$ ) are reconstructed and measured using the ATLAS central detector. If available, an additional measurement of the properties of the dissociative system is presented for events with a proton reconstructed in the AFP detector. Finally, if available, this talk will also present the underlying event measurements using strange particles as probes.

**Co-author:** ATLAS COLLABORATION

**Presenter:** LIU, Jesse (University of Chicago)

**Session Classification:** Small-x, Diffraction and Vector Mesons

**Track Classification:** Small-x, Diffraction and Vector Mesons