

Abstract Submitted  
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**Studies of large-radius jets and their substructure in Pb+Pb and pp collisions with ATLAS**<sup>1</sup> WENKAI ZOU, Columbia Univ, ATLAS COLLABORATION — Measurements of the jet substructure in Pb+Pb collisions provide information about the mechanism of jet quenching in the hot and dense QCD medium created in these collisions, over a wide range of energy scales. This talk presents the ATLAS measurement of the suppression of yields of large-radius jets and its dependence on the jet substructure, characterized by the presence of sub-jets and their angular correlations. This measurement is performed using the large Pb+Pb data sample at the center-of-mass energy of 5.02 TeV recorded in 2018 and compared to the result from 2017 *pp* collisions at the same collision energy. This study of the suppression of inclusive yields of large- $R$  jets brings new information about the evolution of the parton shower in the medium and tests the sensitivity of the jet quenching to the color coherence effects.

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