

Abstract Submitted  
for the APR18 Meeting of  
The American Physical Society

**Inclusive jet measurements in Pb-Pb collisions at  $\sqrt{s_{\text{NN}}} = 5.02$  TeV with ALICE** JAMES MULLIGAN, Yale University, ALICE COLLABORATION  
— The ALICE detector is designed to study the quark-gluon plasma created in ultrarelativistic heavy-ion collisions at the Large Hadron Collider. The quark-gluon plasma is the only known experimental system of deconfined quarks and gluons, and it may allow insight into a variety of open questions about the high temperature regime of QCD and the emergent behaviors of QCD. One major effort to probe the quark-gluon plasma is the study of high momentum jets produced in the initial hard scattering of a heavy-ion collision. The yield and structure of jets in heavy-ion collisions at different collision energies and kinematical ranges give information about the interaction of jets with the quark-gluon plasma, and in turn about the structure of the quark-gluon plasma itself. ALICE reconstructs jets with high-precision tracking of charged particles combined with calorimetric detection of neutral particles, achieving a unique kinematical range of jets down to low momenta. The status of a recent inclusive jet measurement over a variety of jet radii and momenta in Pb-Pb collisions at  $\sqrt{s_{\text{NN}}} = 5.02$  TeV with ALICE will be shown.

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Date submitted: 11 Jan 2018

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