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Particle production at large transverse momentum with ALICE

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We present transverse momentum distributions of charged particles and identified hadrons in pp and Pb-Pb collisions, measured by ALICE at the LHC. The Pb-Pb data are presented in intervals of the collision centrality and cover transverse momenta up to 50 GeV/c. Nuclear medium effects are studied in terms of the nuclear modification factor R_AA. The results indicate strong suppression of high-p_T particles in Pb-Pb collisions, consistent with a large energy loss of hard-scattered partons in the hot, dense, and long-lived medium created at the LHC.

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