

Charged-particle multiplicity, centrality and the Glauber model with ALICE at 2.76 ATeV

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The measurements of charged-particle multiplicity and transverse energy in Pb-Pb collisions at 2.76 ATeV are reported as a function of centrality. The fraction of inelastic cross section seen by the ALICE detector is estimated using a Glauber model or correcting the data by simulations. The results scaled by the number of participating nucleons are compared with pp collisions at the same collision energy and to similar results obtained at the significantly lower energies, and with models based on different mechanisms for particle production in nuclear collisions. Particular emphasis will be given to a discussion on systematic studies of the dependence of the centrality determination on the Glauber model, and the validity of the Glauber model at 2.76 TeV.

Primary author: LOIZIDES, Constantinos (Lawrence Berkeley National Lab. (LBNL))

Presenter: LOIZIDES, Constantinos (Lawrence Berkeley National Lab. (LBNL))

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