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The ratio of pion, kaon and proton particle production in high multiplicity pp over dilute pp at LHC energies

We study the ratio of the pion, kaon and proton particle production on high multiplicity pp collisions at LHC energies, over the transverse momentum spectra corresponding to the energy density of a dilute system in the framework of clustering of color sources to describe the suppression due to initial state effects. Results show suppression for all the multiplicity classes with the strongest effect for the highest multiplicity case.

Authors: BAUTISTA GUZMAN, Irais (Autonomous University of Puebla (MX)); Mr MANCILLA XINTO, Nestor Raul (BUAP); CASTRO SAM, Maria Magdalena (BUAP); Ms LEAL REYES, Nadia Mariana (BUAP)

Presenters: Mr MANCILLA XINTO, Nestor Raul (BUAP); CASTRO SAM, Maria Magdalena (BUAP); Ms LEAL REYES, Nadia Mariana (BUAP)

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