Contribution ID: 33 Type: Parallel

Beam energy dependence of anomalous baryon enhancement in central heavy—ion collisions

An unprecedented large baryon enhancement at the intermediate p_T (2–5 GeV/c) in the central heavy ion collisions at RHIC still lacks unambiguous understanding. In–spite of qualitative agreement with models based on recombination/coalescence of quarks from the de–confined medium of quarks and gluons, contemporary ideas based on mass dependent radial boost and baryon formation from gluon junctions ostensibly reproduces similar result. In this presentation we will report beam energy dependence of baryon anomaly based on hadronic and partonic versions of A Multi Phase Transport model. Such a study would be helpful in extending our in–sight on the origin of anomalous baryon generation particularly at lower energies where partonic activity ceases.

Author: NANDY, Ekta (Variable Energy Cyclotron Centre, Kolkata)

Co-authors: CHATTOPADHYAY, Subhasis (Department of Atomic Energy (IN)); CHOUDHURY, Subikash

(Department of Atomic Energy (IN))

Presenter: NANDY, Ekta (Variable Energy Cyclotron Centre, Kolkata)