



Contribution ID: 19

Type: Poster

Multiparticle production in nucleus-nucleus interactions at 14.6 A GeV

Tuesday, 29 June 2010 16:30 (1 hour)

We present our observations on the various features from the 855 interactions of 14.6 A GeV 28Si in nuclear emulsion. Multiplicity distribution, mean multiplicities, multiplicity correlations of black, grey, shower and helium fragments are studied in this investigation. A comparative study of the results obtained from the interactions at 14.6 A GeV with other available data at the different energies per nucleon is also presented, which shows a good agreement with our experimental data. The study shows that production of grey particles has a linear dependence with shower particle multiplicity where as black particles exhibit a saturation effect, which describe the impact parameter dependence very well.

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Session Classification: Poster Session I

Track Classification: Emulsion chambers