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some aspects of multiparticle production in 4.5 GeV ^{12}C -nucleus interactions

Content :

An attempt has been made to study the characteristics of secondary particles produced in 4.5 GeV ^{12}C -nucleus interactions. These results are also compared with those obtained in high energy hadron-nucleus and nucleus-nucleus collisions. The findings of the present work reveal that the nature of the multiplicity correlations is non linear and such correlations may be fitted quite well by the second order polynomial. These results are in marked disagreement with those reported by other workers. It is also observed that the mean normalized multiplicity and reduced multiplicity may also be reproduced by second order polynomial in heavy ions interactions.

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