

Pseudo-rapidity Distributions of Shower Particles Produced in ^{12}C , ^{16}O , ^{22}Ne and ^{28}Si Interactions With Emulsion at (4.1-4.5)A GeV/c

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The pseudo-rapidity distributions of shower particles produced in ^{12}C , ^{16}O , ^{22}Ne and ^{28}Si interactions with emulsion nuclei at (4.1-4.5)A GeV/c have been compared with the corresponding distributions for the thermalized cylinder picture and the Gaussian ones. Both the thermalized cylinder and the Gaussian pictures succeeded in describing our experimental data for extreme central collisions. The thermalized cylinder picture is not suitable for describing peripheral and semi-peripheral interactions, while the Gaussian one is better in describing the experimental distributions for these types of collisions.