

Production of fast α - particles in 14.6 A GeV ^{28}Si – Em interaction

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Abstract .The measurements of partial production cross -sections of he multiple helium fragments emitted in 14.5 ^{28}Si – Em interactions are reported. The production rate of helium fragments due to fragmentation of , ^{28}Si ions is studied and compared with that obtained for various incident – ion projectile at different energies . The dependence of $\langle N_{\alpha} \rangle$ on the mass number of the incident beams is formulated. The multiplicity distributions of the helium fragments produced in 14.6 and 3.7 A GeV ^{28}Si as well as 200 A GeV ^{32}S exhibit KNO scaling .