

## Production of fast alpha-particles in 14.6 A GeV $^{28}\text{Si}$ -Em interaction

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**Abstract.** The measurements of partial production cross-sections of the multiple helium fragments emitted in 14.5  $^{28}\text{Si}$  Em interactions are reported. The production rate of helium fragments due to fragmentation of,  $^{28}\text{Si}$  ions is studied and compared with that obtained for various incident ion projectile at different energies . The dependence of  $\langle Na \rangle$  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  $^{28}\text{Si}$  as well as 200 A GeV  $^{32}\text{S}$  exhibit KNO scaling .