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Studies of Emitted Particles in Nucleus-Nucleus Interactions at 4.5 A GeV/c

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Analysis has been done for the emitted particles in (12C, 16O, 22Ne, 28Si) + Emulsion interactions at (4.1-4.5) A GeV/c. The multiplicity of the emitted particles; as a function of the mass-number of the interacting projectiles nuclei; has been calculated. The multiplicity distribution and the average-values of the emitted particles (the experimental-values) are compared with that calculated values from Monte-Carlo simulation (the code developed at high-energy lab; Cairo university : "modified cascade evaporated model" (MCEM). Strong correlation between the number of the recoiled nucleons has been observed. An agreement has been shown between the experimental values and the theoretical calculated ones.

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