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SEARCH FOR PSEUDORAPIDITY FLUCTUATIONS IN HIGH ENERGY NUCLEAR COLLISIONS

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Emission of relativistic particles produced in central nuclear collisions in emulsion detector has been studied for different beam energies and primary nucleus - 16 O, 20 Ne, 28 Si, 32 S, 197 Au and 208 Pb. A preliminary study of multiplicity and target dependence of particles fluctuations on pseudorapidity distribution in terms of the quantity χ has been made. Search for the event-by-event fluctuations of observable χ and its dependence on the mass and energies of colliding nuclei, and the degree of centrality has been performed. The comparison of experimental data with model predictions has been made.

Presenter: VRLÁKOVÁ J.

Session Classification: Poster session