XII International Conference on New Frontiers in Physics



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Type: Poster presentation

Imprints of clustering in multiplicity fluctuations

We investigate the multiplicity fluctuations of charged particles observed in high-energy nuclear collisions and relate them to the size of hadronizing systems which happen during such processes. We use the average multiplicities N and variances Var (N) of multiplicity distributions of charged particles produced in centrality selected collisions of relativistic heavy-ion nuclei to evaluate the dynamic variance Ω and study its dependence on the size of colliding systems. We connect the observed system-size dependence of multiplicity fluctuations with the clustering phenomena and the finiteness of the hadronizing sources and the thermal bath.

Is this abstract from experiment?

No

Name of experiment and experimental site

NA61

Is the speaker for that presentation defined?

Yes

Details

Poster presentation.

Internet talk

Maybe

Primary author:SOHEILBEIGI BAZGIR, Ali (Jan Kochanowski University (PL))Session Classification:High Energy Particle Physics

Track Classification: Main topics: High Energy Particle Physics