Critical behaviour of the nuclear-nuclear interactions characteristics near the boundaries of the central collisions region.

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Abstract

The experimental results on the behaviour of some characteristics of the nuclear-nuclear interactions at high energies depending on centrality degree of collisions are presented. These results clearly demonstrate the regime change points of the behaviour of considered dependences and fix the region of central collisions.The percolation cluster existence was considered as one of the resons of the critical behaviour of the events characteristics near the boundaries of central collisions region. We suppose that the obtained results could help in detecting a signal from "quark-gluon plasm" in heavy ion interactions at ultrarelativistic energies.

Preprint submitted to Elsevier Preprint *20 December 2000*