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Cluster formation in high energy heavy ion collisions

Wednesday 9 September 2020 10:00 (30 minutes)

Cluster formation has been observed in high-energy heavy ion collisions at midrapidity. This phenomenon is presently highly debated because the transverse energy spectra at midrapidity show an inverse slope parameter of more than 100 MeV and look rather thermal. In such an environment, it is no expected that clusters with binding energies of below 10 MeV per nucleons can be created or can survive. With our newly developed code, the parton hadron quantum molecular dynamics (PHQMD) approach, a n-body theory which allows for the investigation of clusters we study cluster in the energy range from a couple of AGeV to RHIC energies and discuss how clusters can be formed there.

Is this abstract from experiment?

No

Is the speaker for that presentation defined?

Yes

Name of experiment and experimental site

no

Internet talk

No

Details

Speaker is Joerg Aichelin

Primary authors: Prof. AICHELIN, Joerg (Subatech); BRATKOVSKAYA, Elena (GSI, Darmstadt); GLAESSEL, Susanne (Goethe Universtitaet Frankfurt); KIREYEU, Viktar (Joint Institute for Nuclear Research (RU)); BLUME, Christoph (Goethe University Frankfurt (DE)); Dr VORONYUK, Vadim (Jinr Dubna)

Presenter: Prof. AICHELIN, Joerg (Subatech)

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