Contribution ID: **271**   Type: **Poster**

Clusters and Hypernuclei production within PHQMD+FRIGA model

Tuesday 15 May 2018 19:10 (30 minutes)

We present for cluster produced with the new combined PHQMD+FRIGA model for Nuclotron and NICA energies. PHQMD is a new n-body approach to simulate heavy ion collisions starting from FAIR/NICA energies. The FRIGA clusterisation algorithm, which can be applied to n-body transport approaches, is based on the simulated annealing technique to obtain the most bound configuration of fragments and nucleons. This configurations is close to the finally observed configuration.

The PHQMD+FRIGA model is able to predict isotope yields as well as hyper-nucleus production.

Content type

Theory

Collaboration

Centralised submission by Collaboration

Presenter name already specified

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Session Classification: Poster Session

Track Classification: New theoretical developments