



Contribution ID: 332

Type: **Oral Presentation**

The spatial sub-separation of strangeness from non strangeness in heavy-ion collisions at energies of FAIR and NICA

Wednesday 28 August 2019 17:00 (30 minutes)

The heavy-ion collisions at energies of FAIR and NICA are studied within the microscopic transport models. The whole interaction area is subdivided into the smaller cells. We perform the analysis of the space-time evolution of all particles in all cells, in the $T\text{-}\mu_B$ and $T\text{-}\mu_S$ planes, and the analysis in $x\text{-}t$ of the finally emitted strange and non-strange particles.

Following the time evolution of both distributions, we clearly see the spacial separation of strangeness from anti-strangeness, as well as earlier freeze-out times of kaons and pions compared to those of protons and Lambdas. The latter appear to be frozen out at lower temperature and larger strangeness chemical potential.

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Session Classification: Workshop on Physics at FAIR-NICA-SPS-BES/RHIC