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Type: **Talk**

Particle production in nucleus-nucleus and pion-nucleus collisions at $E_{\text{kin}} = 0.8 - 2A \text{ GeV}$

Thursday 2 June 2016 15:00 (30 minutes)

SMASH is a new hadronic transport model designed to describe the non-equilibrium evolution of heavy-ion collisions. After a brief introduction to the model, it will be shown that SMASH correctly reproduces the cross sections and maintains detailed balance. First comparisons to pion spectra measured by FOPI and HADES will be presented, demonstrating that the energy deposition and transverse expansion are correctly described. Predictions for the particle production in pion-nucleus collisions recently measured by HADES will be given. Understanding the hadronic interactions is the basis for the future exploration of effects of the phase transition.

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Session Classification: Parallel session 1