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SMASH: A new transport approach for FAIR energies

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The microscopic description of heavy-ion reactions at low beam energies is achieved within hadronic transport approaches. In this talk a new approach SMASH (Simulating Many Accelerated Strongly-interacting Hadrons) is introduced, verified, and applied to study particle production at $E_{Kin} = 0.4 - 2 A$ GeV in Au+Au collisions. First SMASH results for strangeness production are presented. Finally, an extension of SMASH with forced canonical thermalization in the high-density regions is demonstrated. This extension effectively accounts for many-particle collisions.

Experimental Collaboration

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