



Contribution ID: 101

Type: Talk

## Hadron production at SIS energies: an update from HADES

*Wednesday 1 June 2016 12:30 (30 minutes)*

Data on particle production in heavy ion collisions in the energy regime of 1-2 A GeV have been collected over almost three decades now. As most of the newly created hadrons are produced below or slightly above their free NN-thresholds, data are usually interpreted with the help of phenomenological models, rather than comparing to elementary reference measurements. Driven by advance in detector technology, more and more rare and penetrating probes have become accessible, and still keep challenging our knowledge about the properties of the created system and its dynamical evolution. In this contribution we give an overview of the recent findings on strangeness production from HADES, with a special emphasis on the data from Au+Au collisions at 1.23 A GeV. We discuss particle yields with respect to several transport and a statistical model fit and put a special emphasis on the rise of the  $\phi/K^-$  ratio towards lower energies and its implication for the interpretation of sequential kaon freeze-out.

**Author:** LORENZ, Manuel (University Frankfurt)

**Presenter:** LORENZ, Manuel (University Frankfurt)

**Session Classification:** Plenary session