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Overview of HADES results

Monday 7 August 2017 11:00 (30 minutes)

HADES is a multi-purpose charged-particle detector operated at the SIS18 synchrotron located at the GSI Helmholtz Center for Heavy Ion Research in Darmstadt, Germany. The provided ion beam energies of 1-2 A GeV are the lowest of all currently running heavy-ion experiments and result in the highest baryo-chemical potentials at freeze-out in case of Au+Au collisions. With the high statistics of seven billion Au-Au collisions at $\sqrt{s_{NN}} = 2.4$ GeV recorded in 2012 the investigation of rare and up to now unexplored observables in this energy regime have become possible. We present an overview of our results on (subthreshold) strangeness production, particle flow and its anisotropies, virtual photon emission and net-proton number fluctuations. In addition, we discuss the kinetic and chemical freeze-out conditions of the created system.

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