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HADES experiment probing baryonic matter at SIS18 : overview of results

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HADES at SIS18 is currently the only experiment studying properties of strongly interacting matter by means of rare and penetrating probes using proton and heavy ion beams in a few AGeV energy range. The study of system size dependence has been recently completed with Au+Au collisions at 1.23 AGeV. The measurements provide a results on kaons, strange resonances, including the first at such low energies data on double strange Ksi(1321), and on low mass dielectrons. The particle production have been measured over large range of rapidities and transverse momenta allowing for extrapolation to full solid angle and for comparisons to thermal, statistical hadronization models and transport models. The results, in particular an unexpected large ratio of K-/phi and the cascade, will be presented and discussed. The results on dielectron production points clearly to a significant contribution of thermal emission from hot a dense phase of the collision. Characteristic features of the radiation will be presented and compared to those obtained and higher energies (RHIC/SPS).

Summary

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