

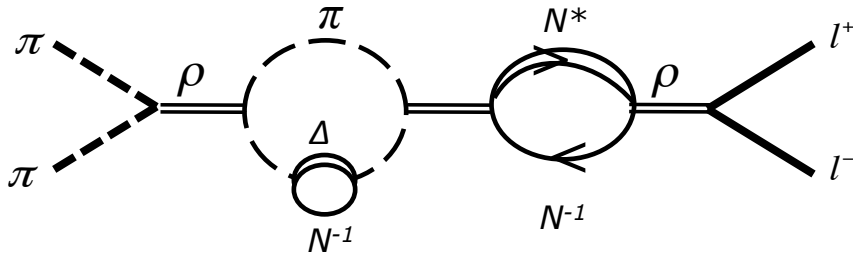
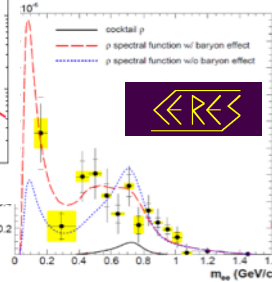
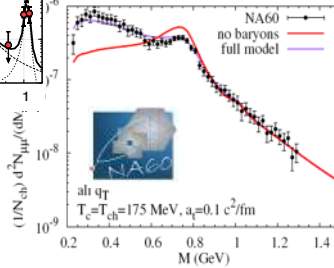
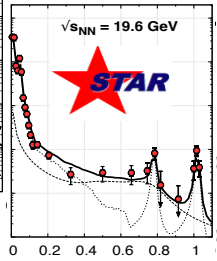
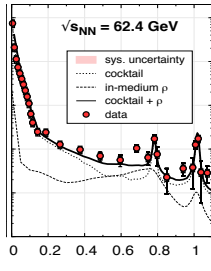
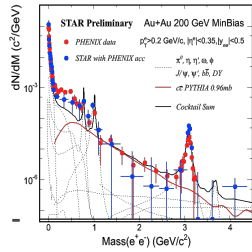
Electromagnetic Probes of Strongly Interacting Matter: Status and Future of Low-Mass Lepton-Pair Spectroscopy

Trento, May 20 - 24, 2013

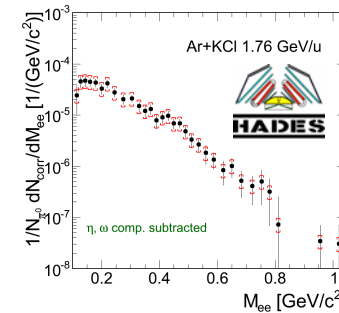
Main topics:

- Thermal radiation of dileptons and photons from the QGP and hot hadronic matter
- In-medium modifications of hadrons in dense matter: relation to the QCD phase structure in particular to the chiral phase transition
- Systematic discussion of measurements of photons and dileptons such as the p_T and mass spectra at the various beam energies.

The experimental situation



- Highly interesting results from RHIC, SPS, SIS18
→ importance of baryons!
- ... even at RHIC/LHC with low net baryon density
→ reason: $(n_B + n_{\bar{B}})$ elevat!



Model: Ralf Rapp

STAR: QM2012,

NA60: EPJC 59 (2009) 607,

CERES: Phys. Lett. B 666 (2006) 425,

HADES: Phys.Rev.C84 (2011) 014902

- Bangs should be
- rather spectral function
- H_{γ} together or by separately
- U_{scat} by U_{scat}
- U_2 ~~for~~ for photos.



KEVIN
05-2010

THE

BARYONS

STRIKES BACK

30th ANNIVERSARY

ExtreMe Matter Institute EMMI

EMMI Rapid Reaction Task Force

Emissivity of matter under extreme conditions, dileptons and chiral symmetry: established connections and missing links

October 5-15, 2013, GSI, Darmstadt, Germany



Key Topics

- Baryon resonances: present status and understanding of vector-meson (mainly rho)-resonance couplings
- Electromagnetic transition form factors of baryonic resonances in the time- and space-like regions: theoretical treatment and experimental approaches
- Dielectron and photon radiation from dense nuclear matter
- New theoretical developments in the context of electromagnetic decays of baryonic resonances

Information

<http://www.gsi.de/emmi/rtrf>

Organizers

Tetyana Galatyuk, TU Darmstadt
 Piotr Salabura, Jagiellonian University, Kraków
 Joachim Stroth, Frankfurt University

Symposium

October 9th, 2013; 10:00 a. m.
 GSI, Lecture Hall (KBW)

More about EMMI

www.gsi.de/emmi