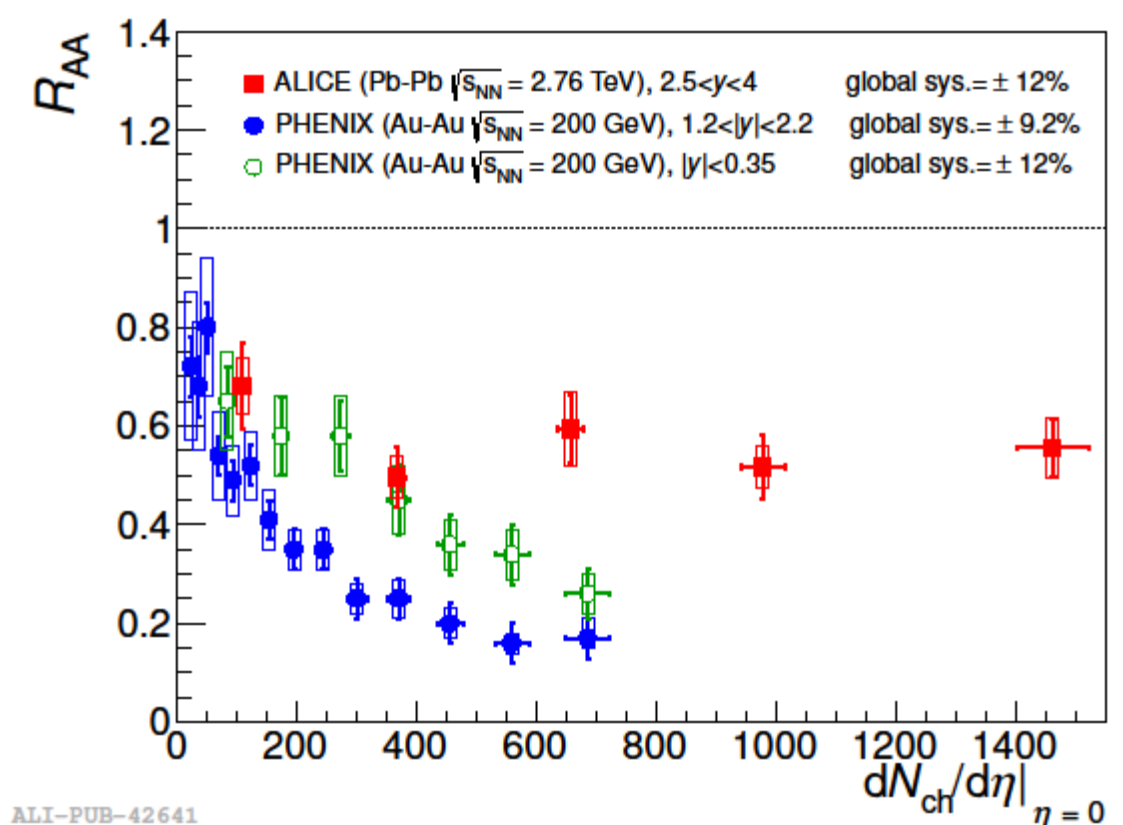


Quark-gluon plasma research with Pb beams at the LHC: status and prospects.

Peter Braun-Munzinger (TU Darmstadt)

Tuesday, 6 November 2012, 16:45 h
DESY Auditorium

We will present an overview of quark-gluon plasma (QGP) research with Pb—Pb collisions at the LHC, with emphasis on recent results from the ALICE experiment. One focus will be on the investigation of collective properties of the fireball formed in a central Pb—Pb collision and on the determination of transport coefficients of the QGP. We will further discuss the production of heavy quarks and quarkonia as messengers for Debye-like color screening and for deconfinement of heavy quarks. The attached plot indicates the drastic changes of J/psi production when going from RHIC to LHC energy. The talk will conclude with an outline of the physics program from 2019 on for the upgraded ALICE detector.



- **Coffee, tea and cookies will be served at 16:30h**
- **After the seminar there is a chance for private discussions with the speaker over wine and pretzels**

