

## Proton number fluctuations in Au+Au collisions investigated with HADES

*Thursday 10 August 2017 11:00 (30 minutes)*

Exploiting the (nearly) full range of particles emitted in pion, nucleon, and heavy-ion induced reactions, the HADES experiment at SIS18 is pursuing a systematic investigation of nuclear matter effects at high baryochemical potential. Here, I will give an update on our study of proton number fluctuations in central Au+Au collisions at  $\sqrt{s} = 2.4$  GeV with special emphasis on the influence of various contributing effects, namely efficiency corrections, volume fluctuations and protons bound in fragments.

**Author:** Dr HOLZMANN, Romain (GSI Helmholtzzentrum)

**Presenter:** Dr HOLZMANN, Romain (GSI Helmholtzzentrum)

**Session Classification:** Plenary

**Track Classification:** Plenary Session