

11th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions



Beitrag ID: 241

Typ: Talk

Characterising the hot and dense fireball with virtual photons at HADES

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Electromagnetic probes (γ, γ^*) offer a unique opportunity to study the conditions during heavy-ion collisions. They are produced throughout the whole evolution of the colliding system and can penetrate the strongly interacting medium to bring direct information from their origins to the detector. In this manner, it is possible to not only probe freeze-out, but also earlier stages of maximum temperature and density.

In this contribution, we present measurements of dielectrons from Ag+Ag collisions, collected at the High-Acceptance-DiElectron-Spectrometer (HADES), at $\sqrt{s_{NN}} = 2.55$ GeV and $\sqrt{s_{NN}} = 2.42$ GeV. A particular focus is set on collectivity studies with a multidifferential analysis of the directed flow v_1 and elliptic flow v_2 in terms of centrality, rapidity, transverse momentum and invariant mass.

Experiment/Theory

HADES

Affiliation

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Sitzung Einordnung: Parallel: Electromagnetic & Electroweak Probes

Track Klassifizierung: Electromagnetic and electroweak probes