

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



Beitrag ID: 292

Typ: **Talk**

Pre-equilibrium photon production in QCD Kinetic Theory

Donnerstag, 30. März 2023 10:00 (20 Minuten)

We use QCD kinetic theory to compute photon production in the chemically equilibrating out-of-equilibrium Quark-Gluon Plasma created in the early stages of high-energy heavy-ion collisions. We compare the non-equilibrium rates to the production in a thermal QGP and extract the dependence of pre-equilibrium photon production on the kinetic and chemical equilibration time. This allows us to include realistic pre-equilibrium photon production in heavy-ion collisions.

Experiment/Theory

Theory/Phenomenology

Affiliation

Oscar Garcia-Montero: Bielefeld University
Aleksas Mazeliauskas: ITP Heidelberg
Philip Plaschke: Bielefeld University
Sören Schlichting: Bielefeld University

Hauptautoren: MAZELIAUSKAS, Aleksas (ITP Heidelberg); GARCIA-MONTERO, Oscar (Universität Bielefeld); PLASCHKE, Philip; Prof. SCHLICHTING, Sören (Universität Bielefeld)

Vortragende(r): PLASCHKE, Philip

Sitzung Einordnung: Parallel: Electromagnetic & Electroweak Probes

Track Klassifizierung: Electromagnetic and electroweak probes