

WPCF 2023 - XVI Workshop on Particle Correlations and Femtoscopy & IV Resonance Workshop 2023



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Evaluation of the thermal photon radiation from a recent solution of relativistic hydrodynamics

Wednesday, 8 November 2023 12:55 (15 minutes)

Recently, we have found a new and finite, exact family of solutions of 1+1 dimensional relativistic hydrodynamics with accelerating velocity field. After reviewing some earlier application, I present a new analytic formula derived from the mentioned family of solutions that describes the thermal photon radiation in high energy heavy ion collisions. I compared this new formula to the most recent nonprompt spectrum of direct photons for Au+Au@200 GeV collisions.

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