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Photons from hot dense matter

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High energy photons have been measured in heavy ion collisions, at both RHIC and LHC. The direct photons, not from decay, carries a special information of the expanding system. This is studied with (3+1)-dimensional ideal hydrodynamics, constrained with a large collection of data of various hadrons. Thus a comparison between a realistic calculation and the photon data from both LHC and RHIC will be presented. We will learn how the expanding hot dense matter shines.

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