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Direct photon production in pp, pA and AA collisions

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We review experimental results on the direct and isolated photon production in pp, pA and AA collisions at different colliding energies and compare them with theoretical calculations. We discuss thermal direct photon production in AA collisions and consider several proposed solutions of "direct photon flow puzzle" - a strong measured collective flow of direct photons, comparable with the one of final hadrons and much stronger than predicted by hydrodynamic models.

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