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Di-photon and photon-hadron correlations at the LHC

Wednesday, 2 September 2015 15:10 (30 minutes)

I will discuss recent developments in calculation of prompt di-photon and photon-hadron production in proton-nucleus collisions within the Color-Glass-Condensate approach. I will discuss in details whether there is a ridge like structure in di-photon and photon-hadron correlations in high-multiplicity events in proton-proton and proton-nucleus collisions at the LHC. Such measurements at the LHC and future colliders provides useful complementary information about the underlying dynamics of particle production in high-multiplicity events, and help to understand the true nature of the observed ridge phenomenon in di-hadron production at the LHC.

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