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Color coherence in multiple antenna medium radiation

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We present the conguration in which a quark-antiquark pair with a fixed opening
angle emits a hard gluon inside a medium, and an additional very soft emission afterwards (double antenna). We discuss the coherence effects in terms of the survival probability, which describes the interaction of the quark-antiquark-gluon system with the medium. We generalize previous studies of the antenna radiation to the case of more than two emitters and prove that this generalization provides further support to the picture of jet quenching with effective emitters in the parton cascade. Our results definitely conclude that the results from the antenna setup (two emitters) can be easily generalized to the case of more than two emitters. These computations go a step forward to obtain a complete description of a QCD cascade.

Experimental Collaboration

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