Contribution ID: **42** Type: **not specified**

Radiative corrections to jet quenching in dense and dilute media

Friday, 31 July 2015 11:30 (30 minutes)

Jet measurements in heavy ion collisions from the LHC and RHIC have highlighted the necessity of new theoretical tools to understand the dynamics of jets going through a quark-gluon plasma. Recent developments have shown how the implementation of color decoherence concepts can help understand the main features of jet modification and the importance of the possibly large radiative corrections. Here it is shown how these corrections appear in both dense and dilute media and how the interpolation between the two cases can help us understand the interplay between medium-induced radiation and vacuum-like emissions.

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Session Classification: Jet quenching and energy loss