

## **Radiation spectrum of a massive quark-gluon antenna in a QCD medium**

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We derive the radiation spectrum of a massive quark-gluon antenna in a QCD medium. The calculation is done in the formalism of the classical Yang-Mills (CYM) equations and interactions with the medium are handled in the harmonic oscillator approximation, valid for soft gluon emissions. We discuss the effect produced by the presence of a mass scale and compare the results with the massless case. We put our findings in relation with the energy loss of heavy quarks in heavy ion collisions, one of the phenomenological puzzles of RHIC and LHC data.

**Primary authors:** Mr SALGADO LÓPEZ, Carlos Alberto (Universidade de Santiago de Compostela); Mr RODRÍGUEZ-MOLDES DÍAZ, Manoel Anxo (Universidade de Santiago de Compostela); Mr RODRÍGUEZ CALVO, Manoel (Universidade de Santiago de Compostela - IPhT CEA Saclay)

**Presenter:** Mr RODRÍGUEZ CALVO, Manoel (Universidade de Santiago de Compostela - IPhT CEA Saclay)

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