# QUARK MATTER 2015
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# NLO correction to the radiative energy loss using MHV calculation

*Tuesday 29 September 2015 16:30 (2 hours)*

We want to compute the momentum distribution of a multiple Bremsstrahlung gluon emission from QCD processes in order improve the Poisson approximation. We present a new technique using the MHV method with the BCFW, Britto Cachazo Feng and Witten, recursion to deal with multiple gluons amplitudes. Instead of summing over 15 diagrams using Feynmann technique, we use the recursion to compute the NLO radiation or two soft gluons correction to a quark in a medium and we show how the splitting function from the collinear limit emerge as one of the BCFW term.

## On behalf of collaboration:

JET

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