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In-medium splittings with multiple scattering resummation beyond the soft approximation

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The field of jet quenching in heavy ion collisions has been steadily moving towards the description and measurement of jet substructure observables. From a theoretical point of view, the main ingredient to understand how jets evolve inside a medium is still missing: a full evaluation of the in-medium parton splitting with an arbitrary number of scatterings and finite energy fraction. In this talk we summarize previous approximations used to calculate these splittings and provide a method for its full evaluation.

Declaration

I certify that I have checked that I am authorised to submit the abstract with the listed co-authors with their current affiliations

Change of Speaker

I understand that change of speaker is allowed provided that no participant gives more than one talk. Otherwise, we will ask the speaker to choose between one or the other abstract to be presented.

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