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Studying jet quenching with energy correlators

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The energy-flow-operator (EFO) provides an idealized field-theoretic definition of a calorimenter. Recently, the angular correlations between EFOs on the celestial sphere have seen a great deal of interest as a tool for jet substructure. Due to the causal structure of EFO correlators, the angular size of the correlations can be viewed as a time parameter: early time perturbative correlations are imprinted at large angles, whilst later time correlations from hadronization appear at small angles. In this work we demonstrate that the scales associated with the early time evolution (quenching) of a jet propagating through the QGP are imprinted in the large-angle perturbative structure of the 2-point correlator.

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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