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Jet Quenching and Heavy Quarks

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Jet quenching is a cornerstone of the heavy-ion physics program at the LHC.

I review the current understanding of jet quenching in terms of a QCD shower evolution being modified by the surrounding medium, leading to copious medium induced radiation, and I outline the evidence for this picture from the light parton sector. Conceptually, the QCD shower description should also be relevant for heavy quarks, but with several important modifications.

I discuss why heavy quark jets (especially in the limit of small E_{jet}/m_q) do not reflect the same physics as light quarks and give an overview over current attempts to explain how the observed behaviour of heavy quark jets can be understood.

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