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The Theory of Jets in Dense Matter

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The quenching of hard jets in relativistic heavy-ion collisions has become the leading probe of the properties of the Quark-Gluon-Plasma (QGP) formed in these collisions. Formed in rare hard interactions, jets traverse the entire space-time profile of the exploding plasma and are modified by it. The detailed study of these modifications reveals clues about the internal structure of the QGP. In this talk I will conduct a broad survey of the field of jet modification in dense matter, outlining the variety of observables that are now available and what can be discerned from these. I will also focus on the evolving technology of Monte-Carlo event generators and how these can become probing tools in the study of the QGP.

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