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Jet entropy as a probe of jet collimation

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As QCD jets fragment in vacuum, the entropy of their hardest constituents increases proportionally to the subjet multiplicity. When the cascade takes place in the presence of a dense QCD plasma, the entropy growth is slowed down due to the transport of the jet's energy to the medium. This feature is connected to the quenching of active color sources inside the jet, collimating the partonic cascade.

Category

Theory

Collaboration

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