Hard Probe 2016



Contribution ID: 128

Type: not specified

Coherence and resolution in jet formation inside a dense medium

Sunday 25 September 2016 08:30 (20 minutes)

Previous studies of the simplified escenario of a color antenna traversing a dense medium have led to the idea that a system of partons with a sufficiently small transverse size maintain coherence despite the multiple interactions with the dense medium, therefore radiating as a single source. Such a setup ignores important effects coming from the formation of the system which inevitably affect the coherence at later times. We study the more realistic case where gluons (both vacuum-like and medium-induced) are emitted inside a medium and show under which circumstances the two-parton system maintains coherence while going across the dense medium by considering interference effects in a second emission.

Summary

Presentation type

Oral

Author: DOMINGUEZ, Fabio (Universidade de Santiago de Compostela)
Presenter: DOMINGUEZ, Fabio (Universidade de Santiago de Compostela)
Session Classification: Parallel Session V: Jet Modification in A+A (III)