Contribution ID: **462** Type: **Presentation**

The energy distribution of subjets and the jet shape

Wednesday, 2 August 2017 13:55 (22 minutes)

We review the treatment of inclusive jets and their substructure within Soft Collinear Effective Theory (SCET). We present a framework that describes the energy distribution of subjets of radius r within a jet of larger radius R. We consider both an inclusive sample of subjets as
well as subjets centered around a predetermined axis, from which the jet shape can be obtained. We consider both the standard jet axis and the winner-take-all axis which is a recoil-free axis. Numerical results are presented for an inclusive subjet sample pp −> jet + X at next-to-leading
order plus leading logarithmic order for both ln R and ln(r/R).

Primary author: Dr RINGER, Felix (Lawrence Berkeley Laboratory)

Presenter: Dr RINGER, Felix (Lawrence Berkeley Laboratory)

Session Classification: QCD

Track Classification: QCD