First ECFA WORKSHOP.

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Event shapes and jet substructure at past and future lepton colliders

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Jet substructure is an important tool in analyses at the currently running LHC experiments. These observables, and likewise related event shapes, can be expected to play an important role at future colliders, both in the study of QCD effects as well as in the tagging of jet properties to identify signal enhanced phase space regions in various analyses. In this talk I will present examples for such applications, using resummed results for event shapes and jet substructure at e^+e^- colliders. These predictions are obtained using the Sherpa event generator framework, both for Monte Carlo simulations as well as in conjunction with analytic resummation in the CAESAR framework.

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