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Determinations of alpha_s from hadronic event shapes and tests of analytic hadronization models using e+e- annihilation data

Thursday, July 16, 2009 9:00 AM (15 minutes)

QCD predictions of hadronic event shapes, in complete 3rd order (NNLO) and in resummed 3rd order (NNLO & NLLA) perturbation theory, are applied to e+e- annihilation data in the c.m. energy range of 14 to 200 GeV, in order to
precisely determine the running coupling alphas(Q). Moments of event shape distributions and respective predictions in NLO QCD are used to test different regions of phase space and various analytic models of hadronisation.

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