Measurement of the running b quark mass from three jet rates in hadronic Z^0 decays

The OPAL Collaboration

Abstract

The double ratio of three jet rates in b and light quark production is measured in 1.5 million hadronic Z^0 decays collected by OPAL in 1994. The double ratio is measured using the Jade and Durham jetfinders and compared to NLO QCD calculations to measure the running b quark mass.