

Measurement of gluon jet fraction in the inclusive jets channel

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A method for measuring the gluon fraction in a jet sample based on a quark-gluon likelihood discriminator was proposed in report. Measuring the gluon fraction opens the way to measuring the characteristics of quark and gluon jets. The report presents the results of measurements of gluon fraction in channel of inclusive jets selected by the CMS detector in 2016 at energy of 13 TeV with an integral luminosity of 36.3 fb^{-1} . The problems that have arisen on the way to the implementation of the measurement plan, methods of their solution, preliminary results and short-term plans are described.

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