

Study of multiple partonic interactions in D0

Samples of photon+3jet and photon+2jet events collected by the D0 experiment are used to study processes with multiple parton interactions. The obtained data sets allow us to measure (a) fraction of events with double and triple parton interactions; (b) effective cross section, a scale parameter related to the parton density inside the nucleon; and (c) cross sections of photon+2(3)jets events as a function of the angle between transverse momentum of the photon+leading jet and momentum of one (two) other jets.

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