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R value measurement and hadron fragmentation functions: recent results by the BESIII collaboration

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At BESIII, the R value is measured with the corresponding c.m. energy going from 2.2324 to 3.6710 GeV by measuring the inclusive hadronic cross section. An accuracy of better than 2.6% below 3.1 GeV and 3.0% above is achieved in the R values. Besides, the measurements of normalized differential cross sections of inclusive hadrons as a function of hadron momentum are performed at BESIII, for π^0 , Ks, eta etc, which provide crucial information for the fragmentation Function (FF) describing the hadronization process.

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