

The b-Quark Distributions in the Nucleon

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A brief introduction into the concept of heavy-quark parton distribution functions (PDFs) is given with a particular discussion of the theoretical limitations on use of the b-quarks PDFs. The nucleon b-quark PDFs derived by different groups are compared and different sources of theoretical and experimental uncertainties are assessed. Impact of the uncertainties in the b-quark partonic luminosities on the single-top production cross sections is estimated.

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