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Parton fragmentation functions

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Fragmentation functions describe the formation of confined, final state hadrons out of asymptotically-free, high-energetic partons. They therefore help us understand the process of confinement. Additionally, they are also the most important tool to learn about the flavor, spin and transverse momentum of the fragmenting partons and thus access the corresponding parton distribution functions in semi-inclusive DIS or hadronic collisions. In addition to these two processes, fragmentation functions can be probed in electron-positron annihilation, particularly at the B factories, where the absence of hadrons in the initial state provide the cleanest environment to study hadronization.
The latest status of fragmentation function measurements will be reported.

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