

Study of the one- and two-particle spectra at high-pT at LHC energies

Abstract content

High-pT hadron production and jet-physics became a focus topic of proton-proton collisions already at RHIC energies. At LHC energies these topics will become even more extensively investigated and “high-pT region” could be extended up to 50 GeV or even further. In my talk I will study the properties of the high-pT hadron spectra beyond 10 GeV/c and investigate the influence of possible physical processes, including jet fragmentation, quark-coalescence and jet energy loss. I will display the expected modifications in the properties of the one-particle hadron spectra. In parallel I will display the corresponding two-particle hadron correlations and their expected modifications.

Summary

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