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Correlations in high-mass jets

Wednesday 10 April 2019 10:45 (26 minutes)

I present the longitudinal and transverse momentum distributions, two particle eta-phi correlations and azimuthal anisotropy (v2) of pions in jets of high mass, obtained in a newly developed fragmentation model [1-4]. In this model, the jet mass is used as the fragmentation scale, and the scale evolution is calculated in the phiˆ3 theory. The initial form of the fragmentation function at starting scale Q0 is obtained in a model based on a micro-canonical statistics and superimposed negative-binomial multiplicity fluctuations.

[1] Eur.Phys.J. A53 (2017) no.2, 36
[2] PoS DIS2016 (2016) 054
[3] PoS DIS2017 (2018) 183
[4] Acta Phys.Polon. B48 (2017) 1225

Author: UERMOESSY, Karoly (Chinese Academy of Sciences (CN))

Presenter: UERMOESSY, Karoly (Chinese Academy of Sciences (CN))

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