

Phase space effects on dipole showers and the DGLAP equation

Monday 18 May 2009 16:00 (45 minutes)

I will discuss the possible conflict between dipole cascades and DGLAP evolution suggested by Dokshitzer and Marchesini. In $e+e^-$ annihilation gluon emissions with high p_t have a very limited phase space. This affects the possible exponentiation in DGLAP evolution. In particular I will discuss the influence of these limitations in the angular ordered cascade à la HERWIG, and in the k_t -ordered cascade à la ARIADNE.

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