

HERWIRI1.0: MC Realization of IR-Improvement for DGLAP-CS Parton Showers

Thursday 30 July 2009 15:35 (25 minutes)

In the context of HERWIG6.5, we present Monte Carlo data showing the comparison between the parton shower generated by the standard DGLAP-CS kernels and that generated by the new IR-improved DGLAP-CS kernels recently developed by one of us(BFLW). This is done by implementing the new kernels in HERWIG6.5 to generate a new MC, HERWIRI1.0, for hadron-hadron interactions at high energies. Possible implications for LHC phenomenology and comparisons with FNAL data are also discussed.

Author: Dr WARD, Bennie (Baylor University)

Co-authors: Dr JOSEPH, Samuel (Baylor University); Mrs YOST, Scott (The Citadel); Dr MAJHI, Swapan (Saha Institute, Kolkata, In)

Presenter: Dr WARD, Bennie (Baylor University)

Session Classification: QCD I

Track Classification: Perturbative and Non-perturbative QCD