



NLO QCD Corrections to Inclusive Jet and Hadron Production in DIS

http://www.firstlight.cn 2007-06-30

We analyze the order a2s corrections to the single inclusive jet and hadron cross sections in lepton-nucleon deep inelastic scattering. T he full calculations are done analytically, obtaining finite NLO partonic level cross sections for these processes. We show that in both cases t he dominant partonic mechanism starts at order a2s, being effectively a lowest order estimate, with the consequent large factorization scale u ncertainty, and the

likelihood of non-negligible corrections at the subsequent order in perturbation theory.

<u>存档文本</u>

我要入编|本站介绍|网站地图|京ICP证030426号|公司介绍|联系方式|我要投稿 北京雷速科技有限公司 版权所有 2003-2008 Email: leisun@firstlight.cn