

# Charmonium production at HERA

Andreas Meyer

H1 and ZEUS Collaborations

DESY

Charmonium production in ep collisions provides a clean testing ground of perturbative QCD because of the presence of a hard scale from the charm mass and the simple initial state configuration. In this talk, the production of the charmonium is presented with an emphasis on the inelastic production, where the charmonium are produced from open  $c\bar{c}$  pairs. The cross sections are compared to the colour singlet model and the so-called colour-octet contribution where soft-gluon emission is involved.

[1] H1 Collab., C. Adloff et al., Eur. Phys. J. C 25 (2002) 1, 41.

[2] ZEUS Collab., S. Chekanov et al., Eur. Phys. J. C 44 (2005) 13.

E-mail: andreas.meyer@desy.de