Contribution ID: 138 Type: not specified

## Photoproduction of hadron pairs with high transverse momenta at fixed target experiments

Tuesday 17 April 2007 11:10 (20 minutes)

We consider the photoproduction of two hadrons in polarized lepton-nucleon collisions in the framework of perturbative QCD. After illustrating how to obtain the experimentally relevant observables a detailed phenomenological study of the photoproduction of hadron pairs at high transverse momenta is presented. We show theoretical predictions for the relevant cross sections and double-spin asymmetries at HERMES and COMPASS kinematics as well as theoretical uncertainties and analyze the sensitivity of the asymmetries to the gluon polarization delta g in the nucleon.

**Primary author:** HENDLMEIER, Christof (University of Regensburg)

Presenter: HENDLMEIER, Christof (University of Regensburg)

Session Classification: Spin Physics

Track Classification: Spin Physics