

Registration for the Spring-Meeting of the
German Physical Society
from 28.03. to 31.03.2006
in dortmund

$D^*\mu$ Correlations in Photoproduction Events at HERA —
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Heavy flavors events in the photoproduction regime ($Q^2 < 1 \text{ GeV}^2$) are studied with the H1 detector at the ep collider HERA. The initial $q\bar{q}$ pair, which is produced mainly in the boson-gluon fusion process, is tagged by reconstructing a D^* meson in the final state and a μ from semileptonic decays. A number of variables are defined to describe the $D^*\mu$ system: the transverse momentum $p_t(D^*\mu)$, pseudorapidity $\eta(D^*\mu)$, rapidity $y(D^*\mu)$ and azimuthal angle $\Delta\phi(D^*\mu)$. These variables can be related to the ones of the $q\bar{q}$ pair and detailed investigation of the production dynamics is possible.

Results of data and Monte Carlos studies done with programs that implement different evolution equations (Pythia, based on the DGLAP equation, and Cascade, based on CCFM), will be presented.

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