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D^* and Jets in Photoproduction — •Zlatka Staykova — DESY, Notkestr. 85, 22607 Hamburg

Photoproduction of charm events with jets are investigated at H1, HERA. Charm quarks are tagged via the meson D^* in the so-called golden decay channel $D^* \to K\pi\pi_s$. All D^* particles are reconstructed in the central rapidity range of $|\eta(D^*)| < 1.5$ with $p_t > 2.5\,\mathrm{GeV}$. As the charm quarks are mainly produced via the process *Boson Gluon Fusion* one assumes that when tagging a *jet* in a charm event the quark pair is reconstructed. Therefore investigating charm events with jets gives an access to the variable x_g which in the current phase space reaches smallest possible values. In addition one can extend the angular range for jets and require second or even third jet and investigate in detail the partonic ladder between the proton and the hard interaction.

Part: T
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