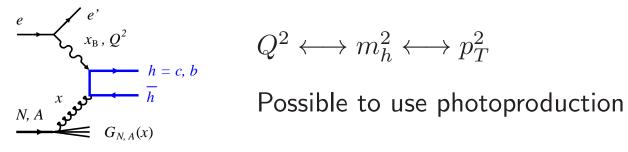
Heavy quark photoproduction with EIC

LDRD Project "Nuclear gluons with charm at EIC," Meeting 16-Sep-21

• Heavy quark production in QCD involves multiple hard scales



• Extensive photoproduction studies at HERA

Charm and beauty fragmentation functions, spectroscopy, dijets, ... H. Abramowicz et al. [ZEUS Collaboration], 2013 JHEP 1309 058 [INSPIRE] F. D. Aaron et al. [H1 Collaboration], Eur. Phys. J. C 72, 2047 (2012) [INSPIRE]

• Potential advantages of photoproduction:

Higher HQ production rates; fewer structures (σ_T only)

• JLEIC design has low- Q^2 electron tagger for photoproduction Need specifications: Q^2 cutoff, effective photon flux