

## Contribution submission to the conference Karlsruhe 2011

**Exclusive diffractive  $J/\psi$  production at low  $W_{\gamma p}$  with the H1 detector at HERA** — ●FLORIAN HUBER — Physikalisches Institut, Universität Heidelberg, Philosophenweg 12, 69120 Heidelberg

Exclusive diffractive photoproduction of  $J/\psi$  mesons is measured with the H1 detector at the electron-proton collider HERA. At the end of the HERA operation in 2007 the nominal proton beam energy was reduced from 920 GeV to 575 and 460 GeV, respectively. The reduced proton beam energy allows diffractive  $J/\psi$  measurements in an extended phase space towards lower photon-proton centre of mass energies  $W_{\gamma p}$ . Differential cross sections are presented as a function of  $t$ , the squared four-momentum transfer at the proton vertex, and of  $W_{\gamma p}$  in the kinematical range of low photon virtualities of  $Q^2 \leq 2.5 \text{ GeV}^2$ .

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**Email:** florian.huber@desy.de