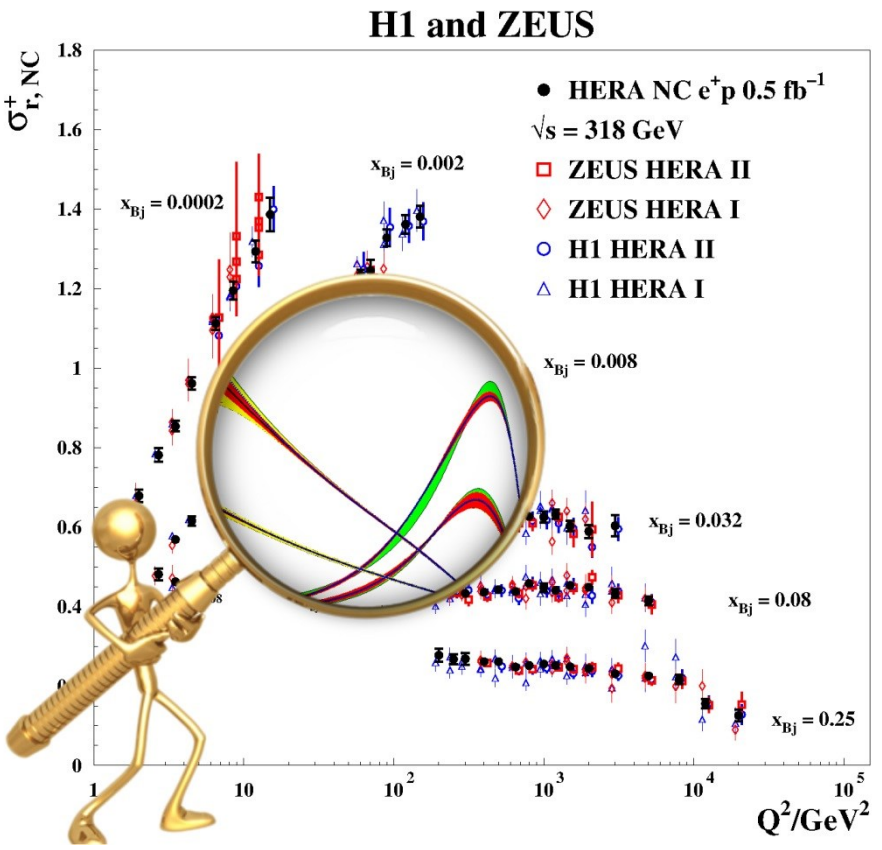
DESY
Physics Seminar

HERA crown jewels, inclusive cross sections and parton densities.

Katarzyna Wichmann (DESY)

Tuesday, 23 June 2015, 16:45 h, DESY Auditorium



The proton is a subatomic particle with a complex dynamic structure. This structure still remains a puzzle that needs to be solved in order to allow successful searches for new physics phenomena, e.g. at the LHC collider at CERN. Since the proton discovery at the beginning of 20th century, numerous experiments were performed to study its substructure, but none have achieved as much as the experiments at DESY's former HERA collider, the only ever existing high energy electron-proton collider, which was shut down in 2007. HERA has delivered most precise and valuable data, which underpin investigations in fundamental physics such as those using proton-proton collisions at the LHC. The analysis of these HERA riches continues to date.

- **Coffee, tea and cookies will be served at 16:30h**
- **After the seminar there is a chance for private discussions with the speaker over wine and pretzels**