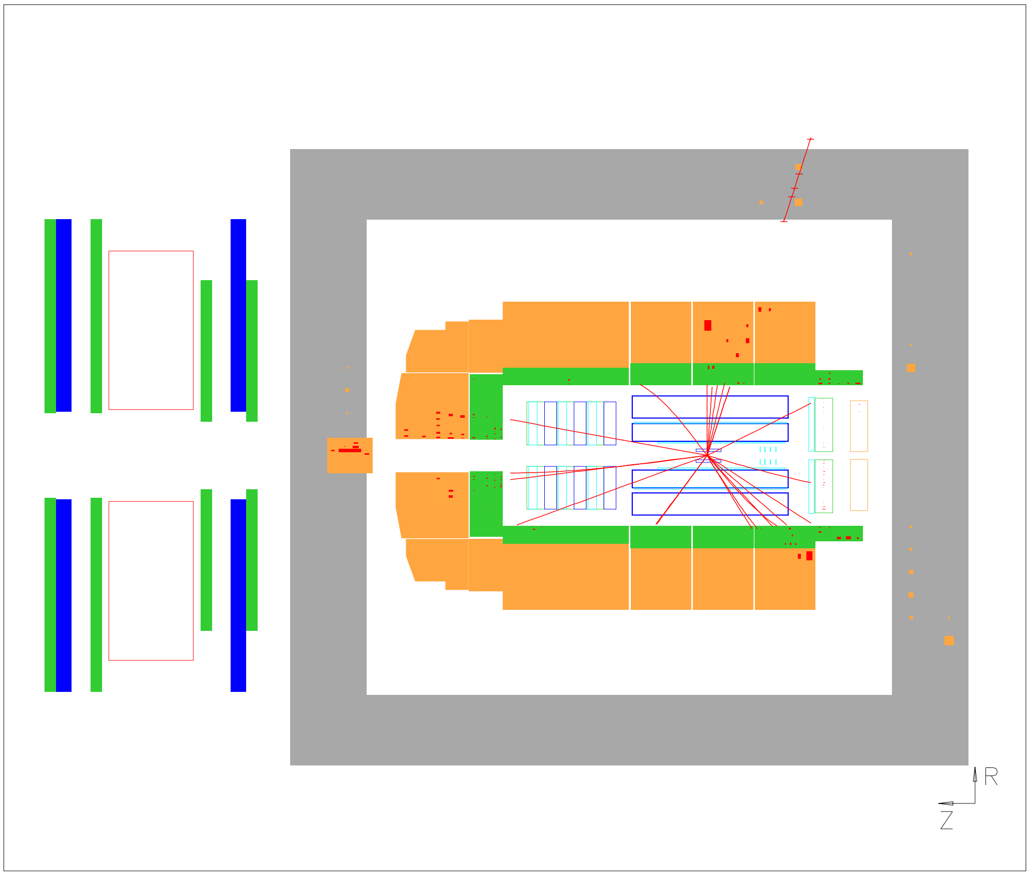
HERA - an Electron Proton Collider

$27.5\,\text{GeV}\ e^{\pm} \Longrightarrow$ $\sqrt{s} = 300\,\text{GeV}$ $\Longleftarrow p\ 820\,\text{GeV}$

$e^{\pm} \Longrightarrow$



$\Longleftarrow p$

- HERA is also photon-proton collider $\Rightarrow$ photoproduction experiment, $E_{CMS}(HERA) \sim 10 \times E_{CMS}(\text{fixed target})$
- ZEUS and H1 collected integrated luminosities of $\sim 20\ \text{pb}^{-1}$ in 1993 - 1996 (0.5, 3., 6., 10 pb^{-1})
- Data shown here are from 1994 and/or 1995 running - $\sim 10\ \text{pb}^{-1}$