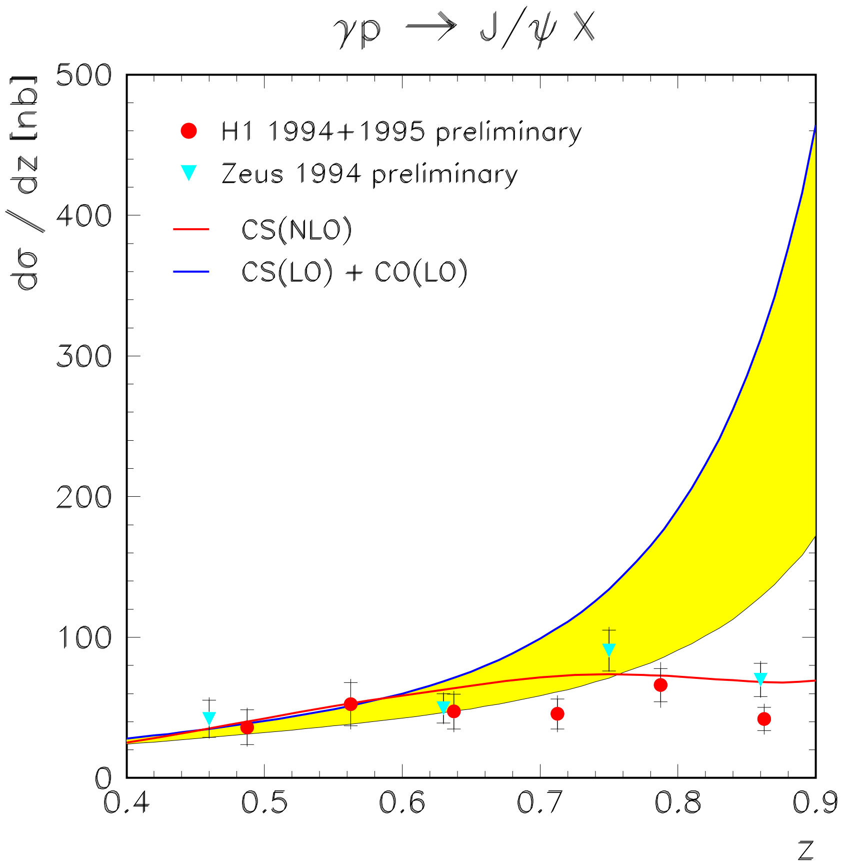
Inelastic J/ψ Photoproduction – $\mathrm{d}\sigma_{\gamma p}(z)$

J/ψ energy distribution : compare data with NLO pQCD calculations
restrict region to (i) remove background (diffractive, resolved γ),
(ii) make calculations more reliable

Inelasticity : $0.3 \leq z = \frac{p \cdot p_\psi}{p \cdot q} \simeq E_{J/\psi}/E_\gamma \leq 0.9$ $\quad p_t^2(J/\psi) > 1\,\mathrm{GeV}^2$



⇒ Agrees reasonably with (NLO) Colour Singlet in $z < 0.9$ (Krämer..)

- LO Colour Octet distinctive signature at high $z > 0.9$ (Cacciari...)

⇒ *NO* indication for large Colour Octet contribution (as at Tevatron)
Q: how to transfer ME to HERA? Large uncertainty (yellow band)
due to effective p_T-kick (ISR) ?