Upgrade

New $e-$taggers. Motivation

1) **Reconstruct kinematics in a wider $W_{\gamma p}$ range**
150 ÷ 250 GeV $\Rightarrow$ 60 ÷ 250 GeV , and thus:

- measure energy dependences of various processes, such as $\sigma(\gamma p \rightarrow all)$, $\sigma(\gamma p \rightarrow J/\Psi, \rho, \omega + X)$ etc.
- determine more accurately x_γ at its low values
- measure inelasticity

$$z = \frac{p \cdot p_{J/\Psi}}{p \cdot q} = \frac{(E - p_z)_{J/\Psi}}{2yE_e} ,$$

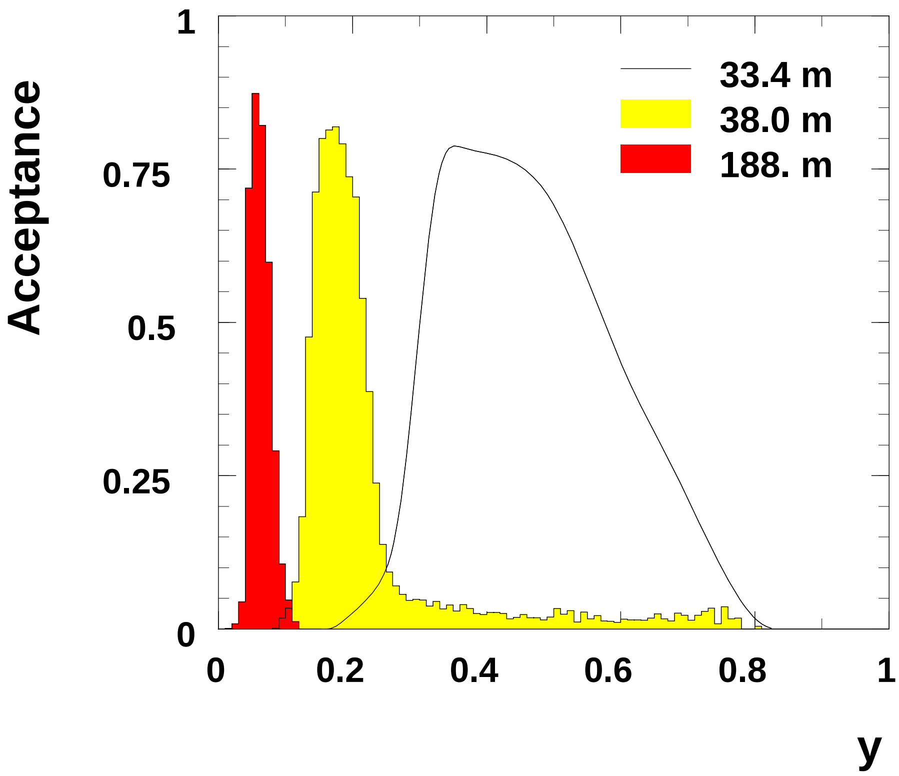
to disentangle elastic from inelastic vector meson production

2) **Trigger charm events in a 3 times larger acceptance**

3) **In conjunction with Forward Proton Spectrometer use them for diffractive γp physics and for precise calibration of FPS**

$\Rightarrow$ **add 2 new detectors (at z=-38m and -188m) of the same type as presently working ET**

New e–taggers. Acceptance



Prototype of new ET (4.4×6.6 cm, 6 KRS crystals) is installed at $z = -44$m for the tests in 1995 run

Further information get from:

1) V.Andreev, S.Egli, R.Eichler and S.Levonian, H1-09/94-383

2) Latest on-line Lumi news in **WWW**