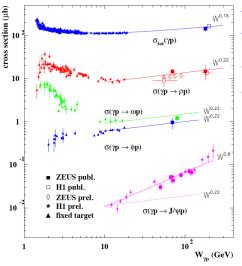
J/ψ Photoproduction at Threshold

GlueX Physics Working Group Meeting August 10, 2015



Cross Sections: hep-ex/9712027



Threshold $_{J/\psi}$: $E_{\gamma}=8.21~{\rm GeV}$ Threshold $_{P_c}$: $E_{\gamma}\approx 9.8~{\rm GeV}$ $\sigma_{\gamma p \to p J/\psi} (W\approx 4~{\rm GeV})=1~{\rm nb}$?

Yield in 200 days:

 $N_{J/\Psi} \approx 40,000$

• integrated over hadronic decay modes, $\epsilon_{MC} \approx 5\,\%$

More realistically (still optimistic):

- $\sigma = 0.1 \text{ nb}$? $\rightarrow N_{P_c} \approx 4,000$
- Photon Rate ≥?
- Decay Mode?