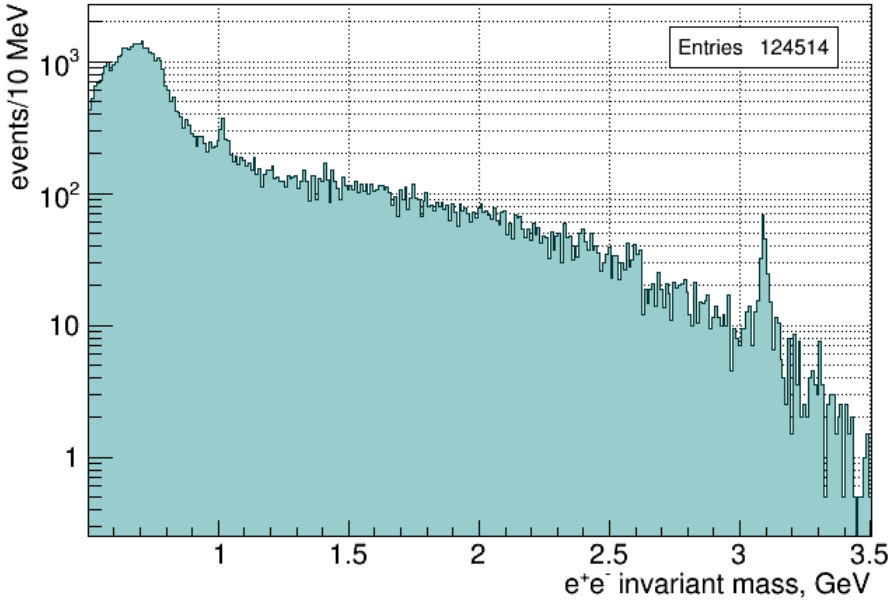
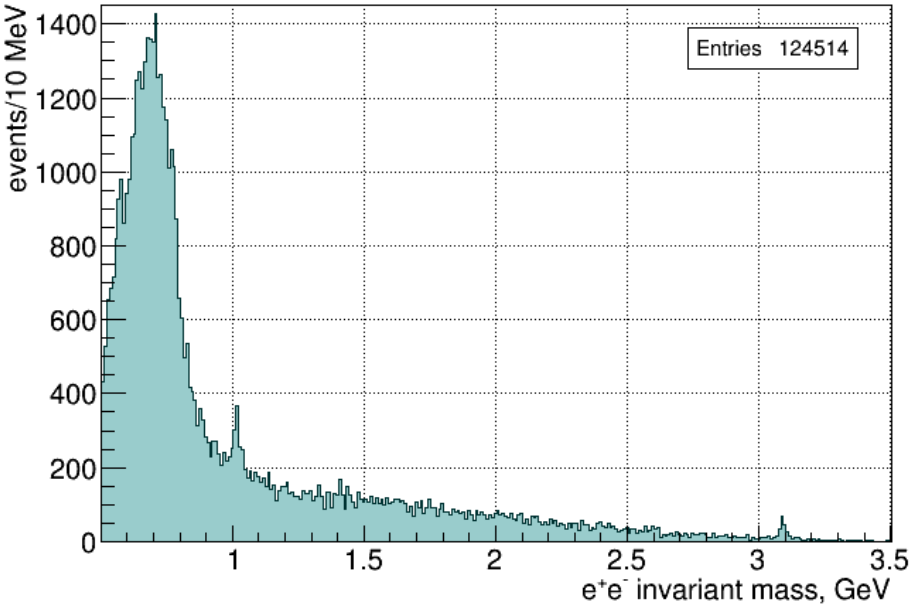
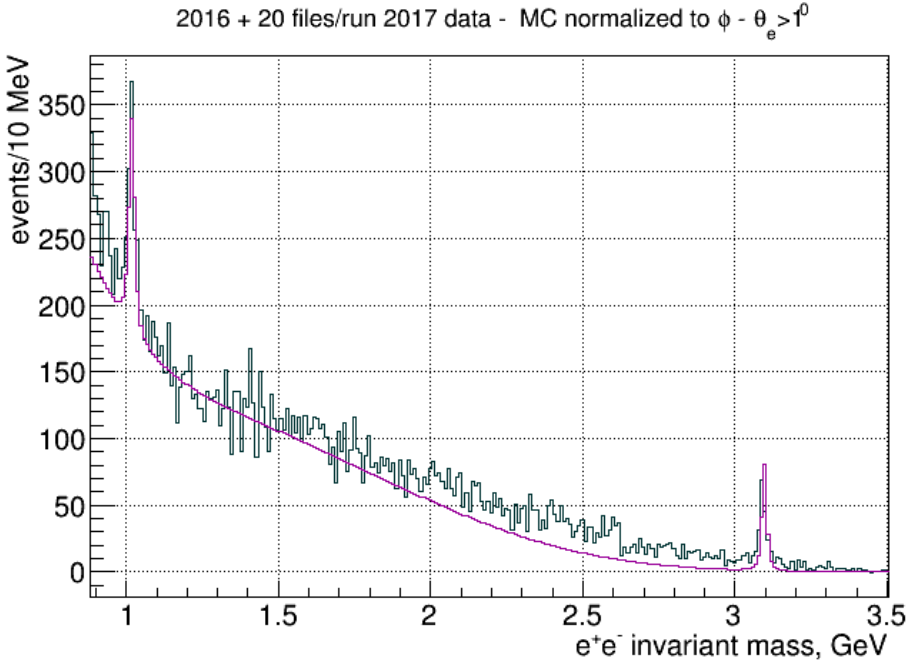
2016 + 20 files per run from 2017 data

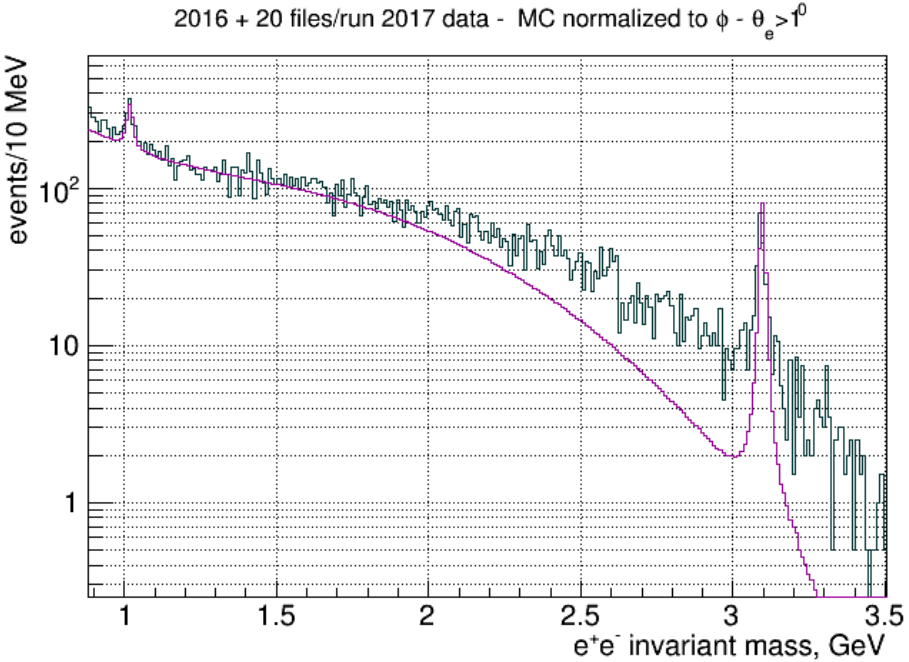




Require kin.fit converges and $\theta_e > 1^0$

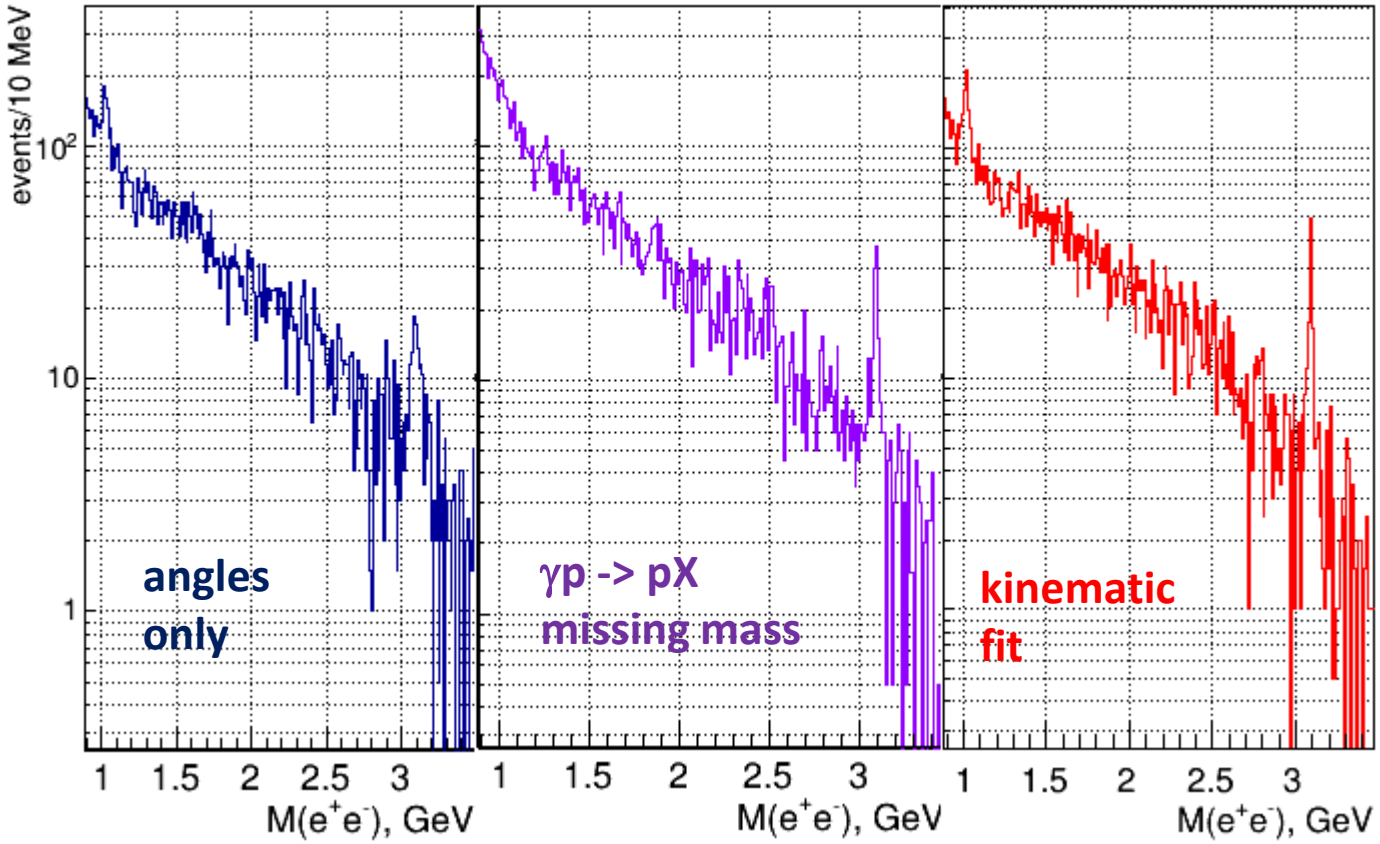
2016 + 20 files per run from 2017 data



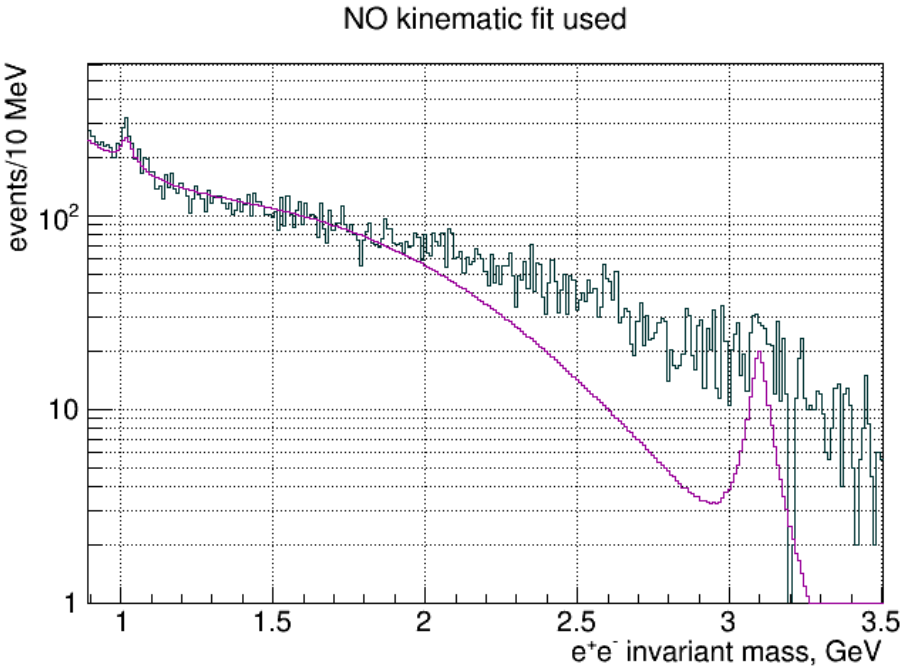


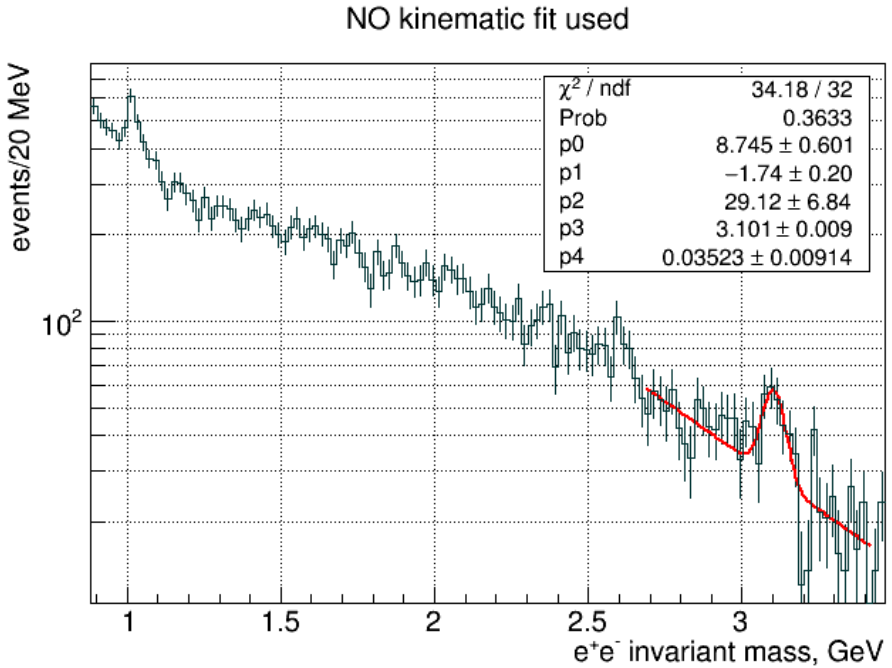
Require kin.fit converges and $\theta_e > 1^0$

Reconstructing p, e^+, e^- momenta from angles (2016 data)



Reconstructing p, e^+, e^- momenta from angles (2016 data)

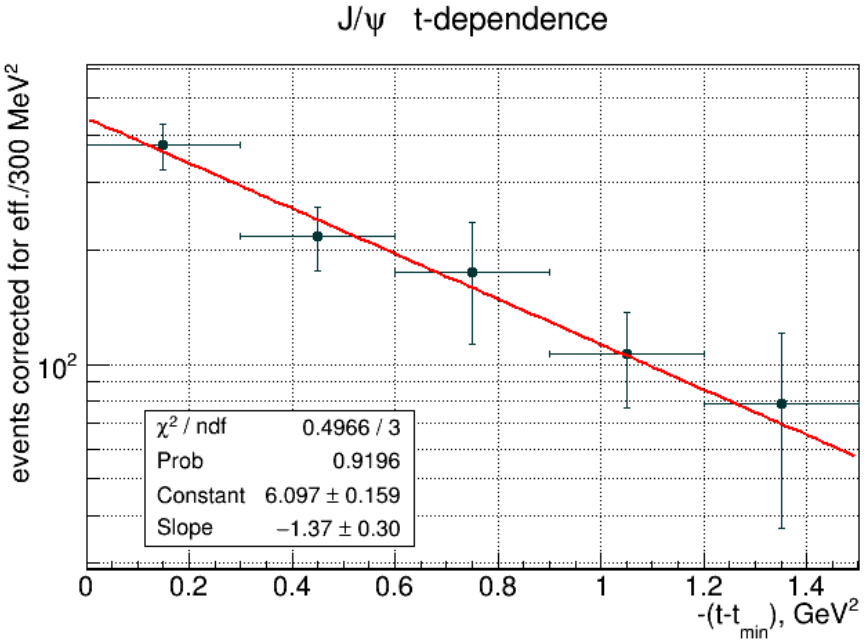


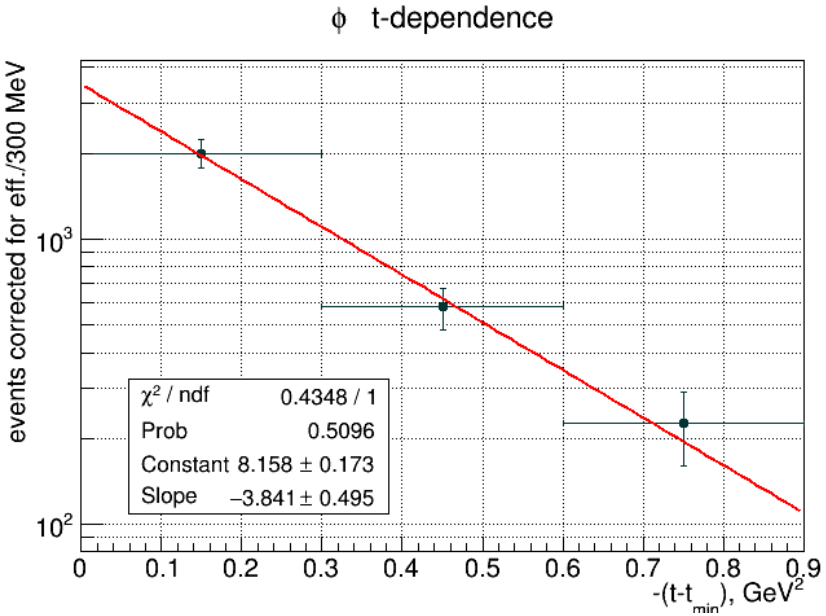


Momenta calculated from angles

Require energy conservation to +/- 200 MeV and $\Delta r(\text{vertex}) < 4$ cm

Analysis in bins of t

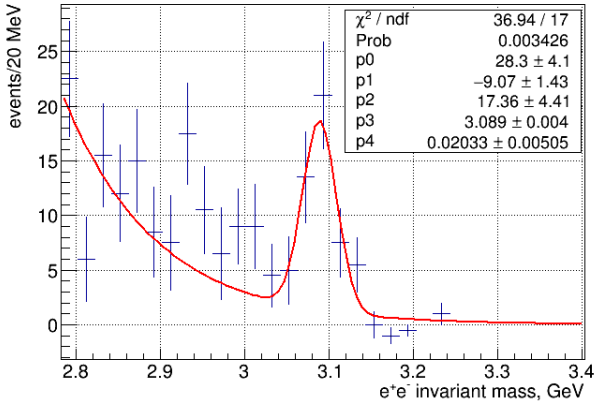


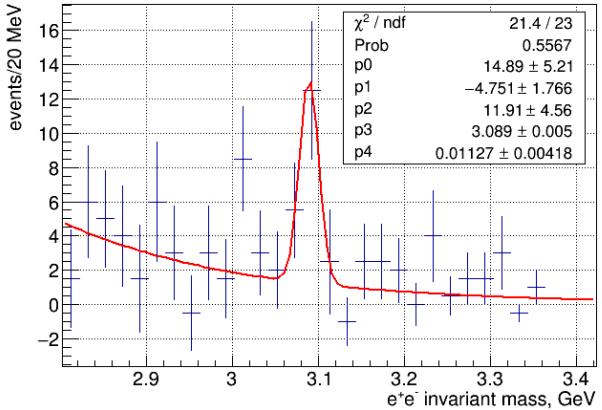


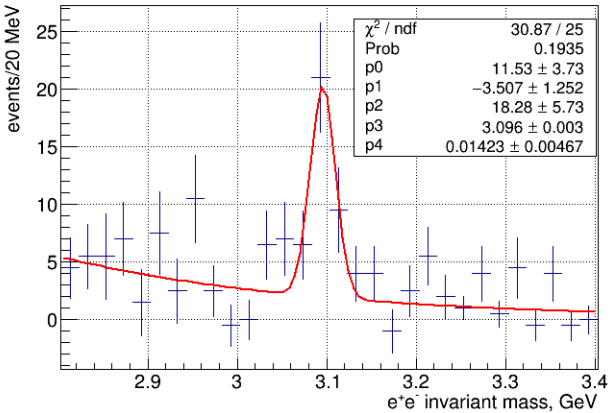
t-slope of Cornell data 1.2 GeV^{-2} at E_γ = 11 GeV

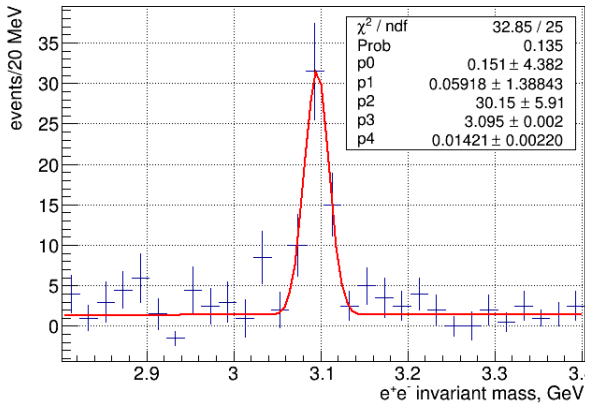
t-slope of old data ~3.5 GeV^{-2}

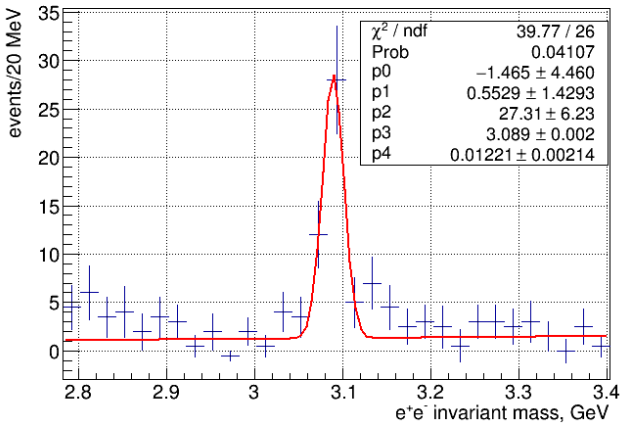
Analysis in bins of energy



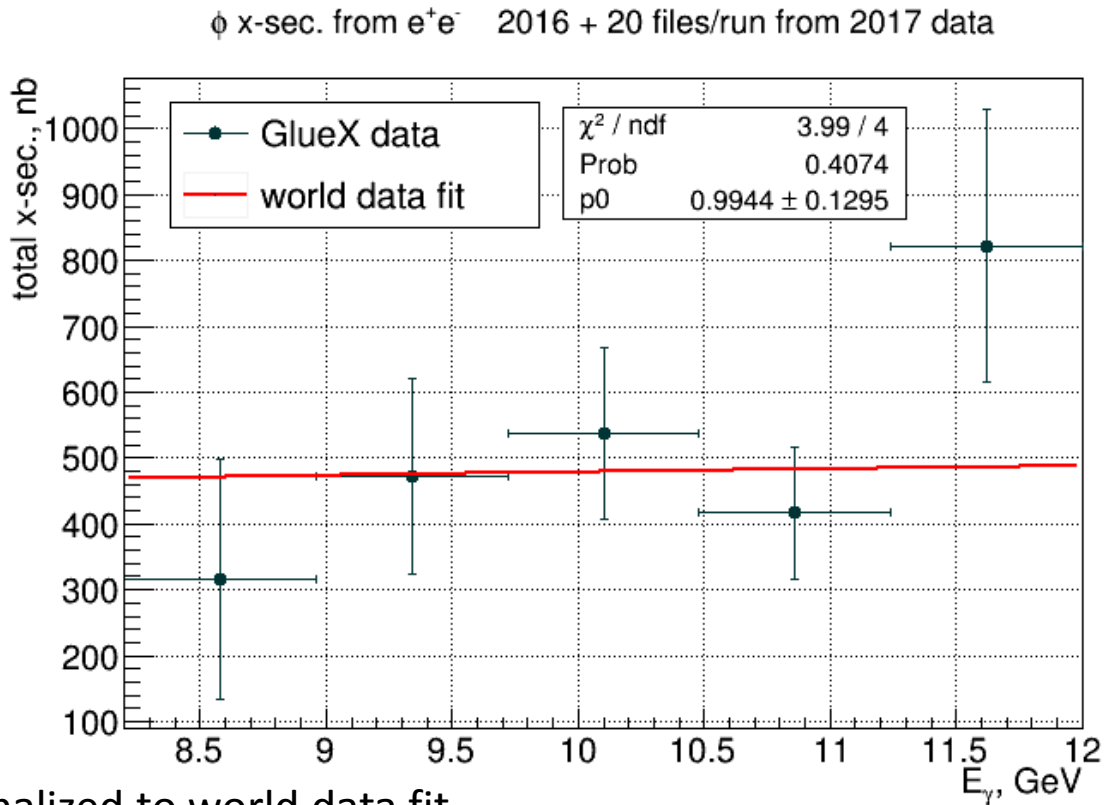








ϕ x-sec. vs beam energy

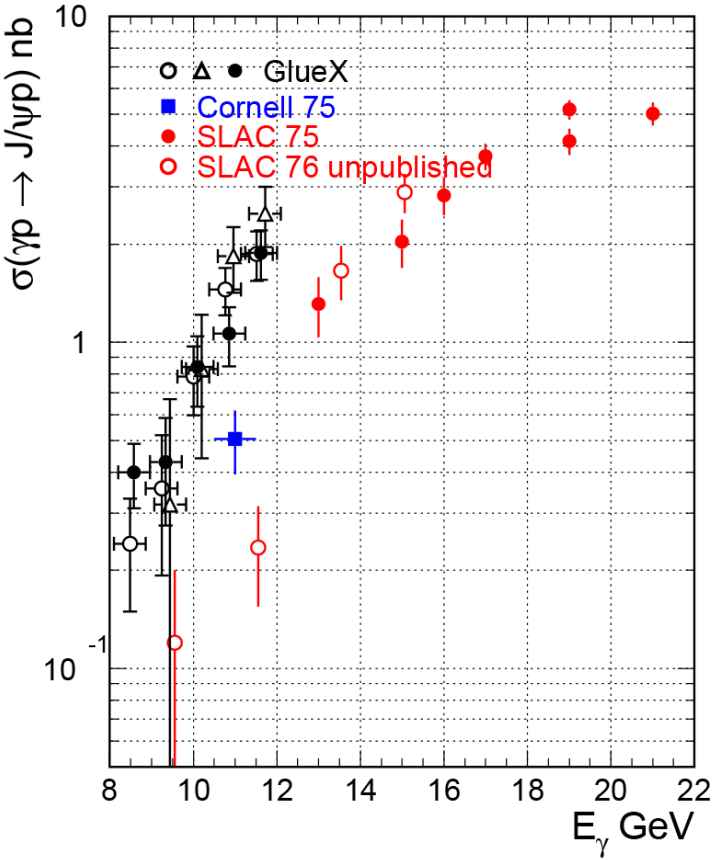


GlueX data normalized to world data fit -
gives estimate of (luminosity) * (efficiency)

J/ψ x-sec. vs beam energy

t-slope of SLAC data 2.9 GeV^{-2}

t-slope of Cornell data 1.2 GeV^{-2}

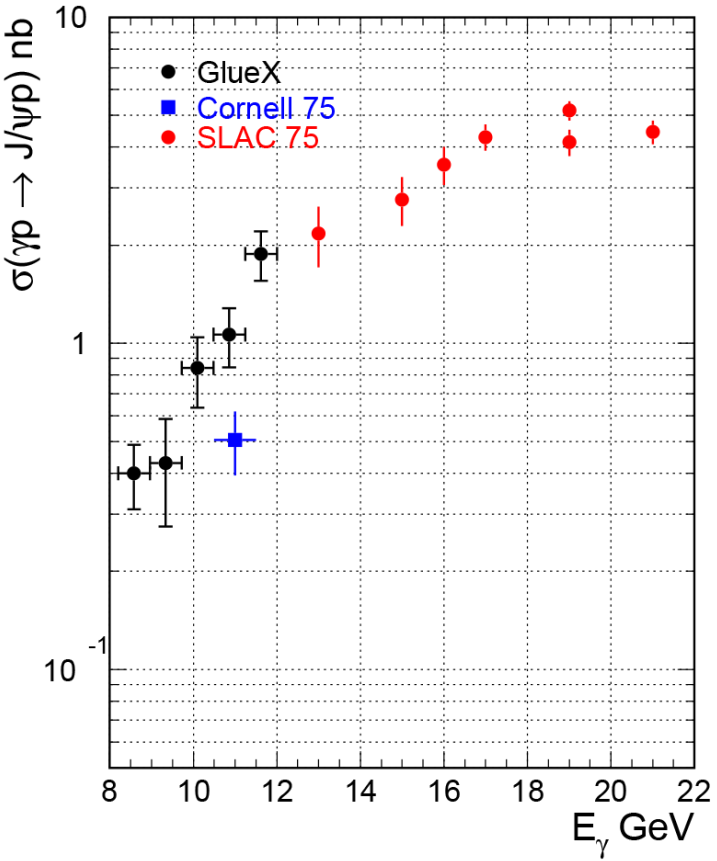


- ● Fits in slices of energy
- ○ Using kin. fit (global fit with flat background)
- Δ No kin.fit (global fit with flat background)

J/ψ x-sec. vs beam energy

t-slope of SLAC data 1.39 - 2.9 GeV^{-2} (13-21 GeV)

t-slope of Cornell data 1.2 GeV^{-2}

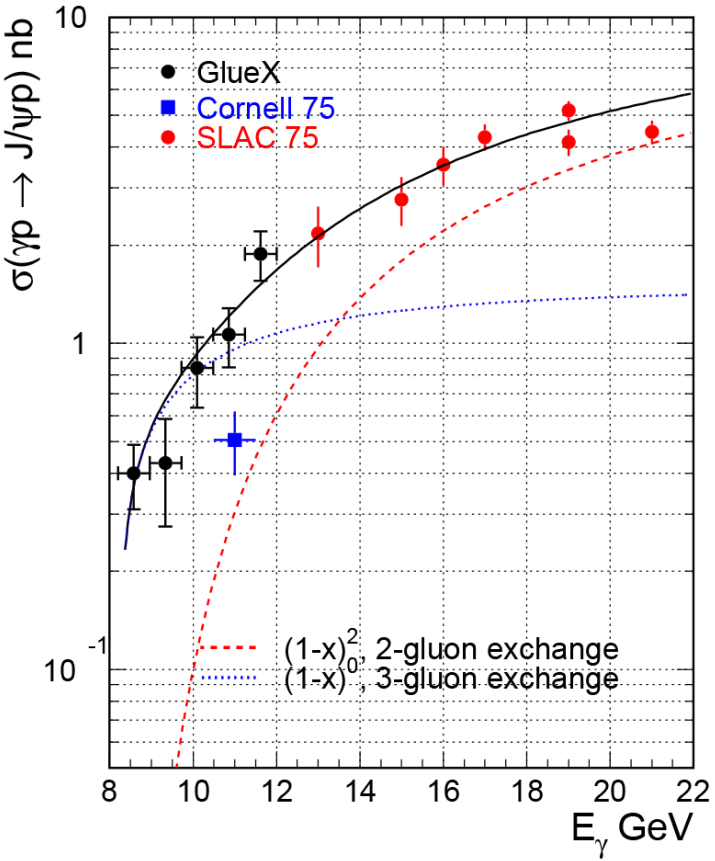


- Fits in slices of energy

J/ψ x-sec. vs beam energy

t-slope of SLAC data 1.39 - 2.9 GeV^{-2} (13-21 GeV)

t-slope of Cornell data 1.2 GeV^{-2}



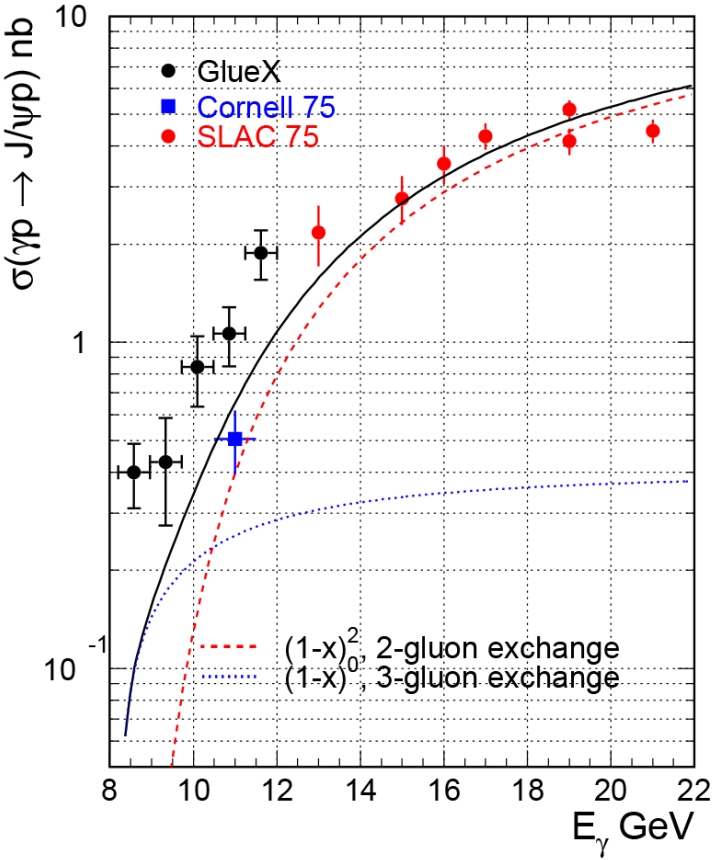
- Fits in slices of energy

Cornell data excluded from fit

J/ψ x-sec. vs beam energy

t-slope of SLAC data 1.39 - 2.9 GeV^{-2} (13-21 GeV)

t-slope of Cornell data 1.2 GeV^{-2}



- Fits in slices of energy

GlueX data excluded from fit