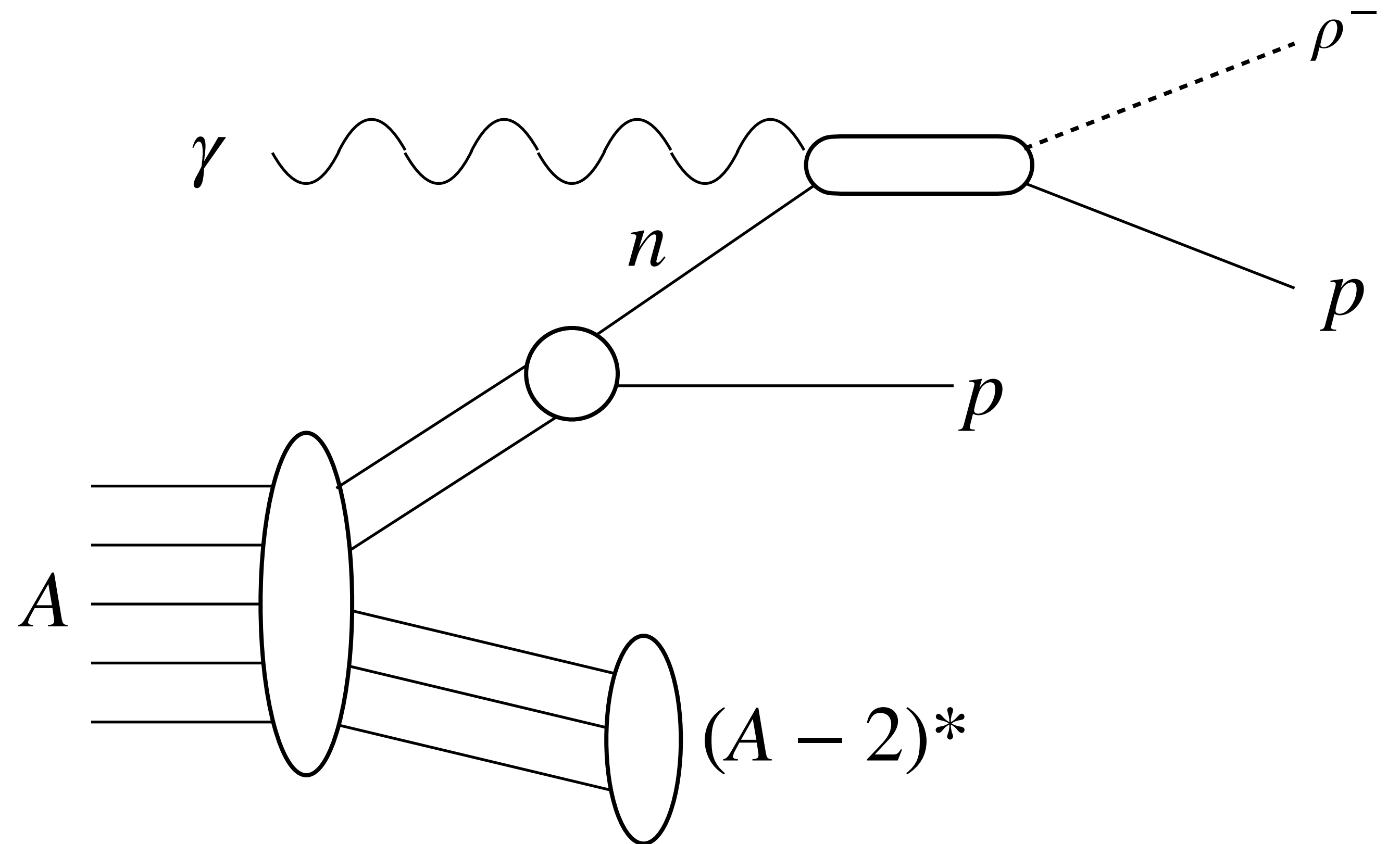


$A(\gamma, \rho^- pp)$ GCF Comparisons

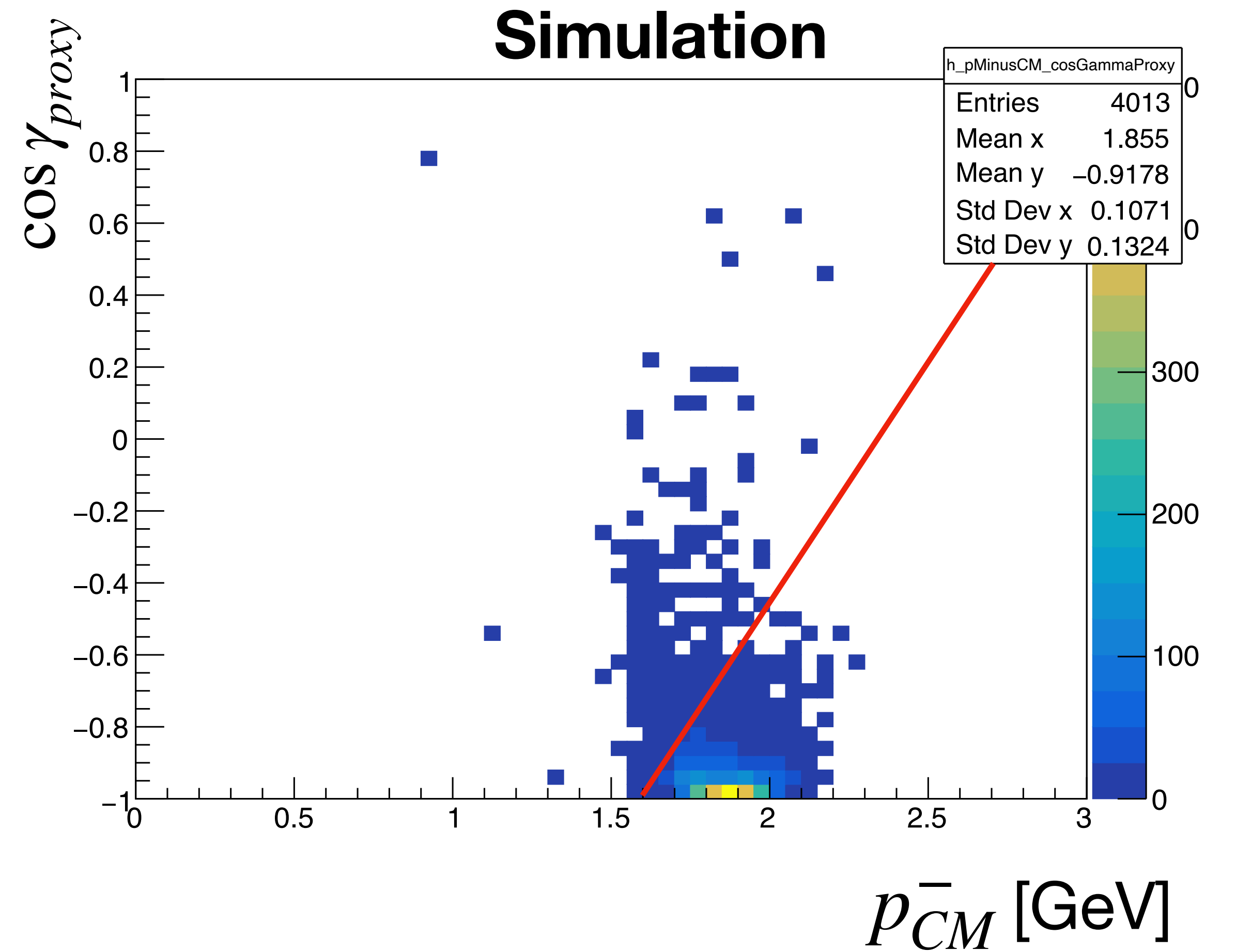
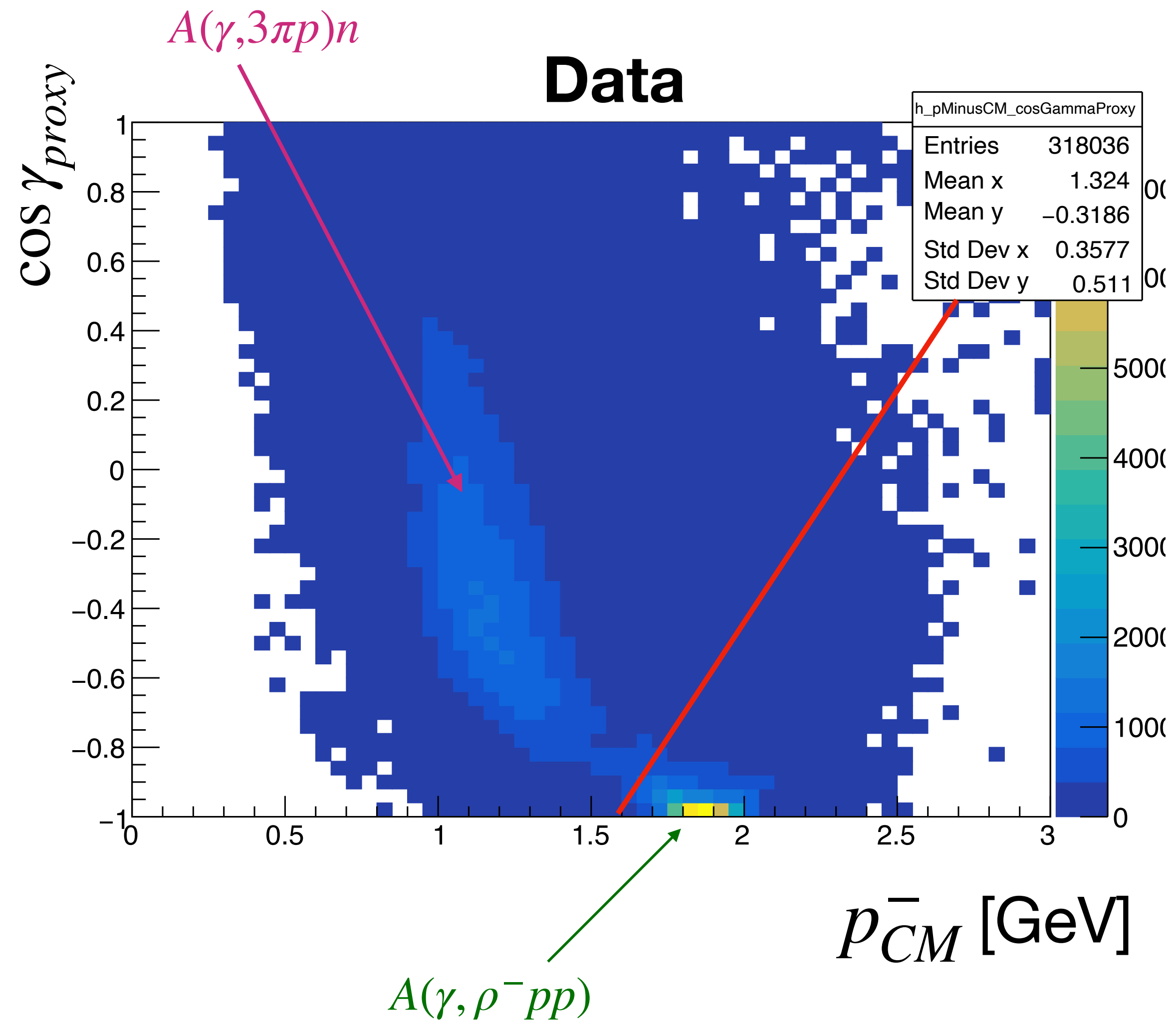
- Requiring 2 positive tracks, 1 negative track, 2 neutral showers
- Kinematics fit on vertex,
 $m_{\gamma\gamma} = m_{\pi^0}$
- Examined in 23% of total ${}^4\text{He}$ data



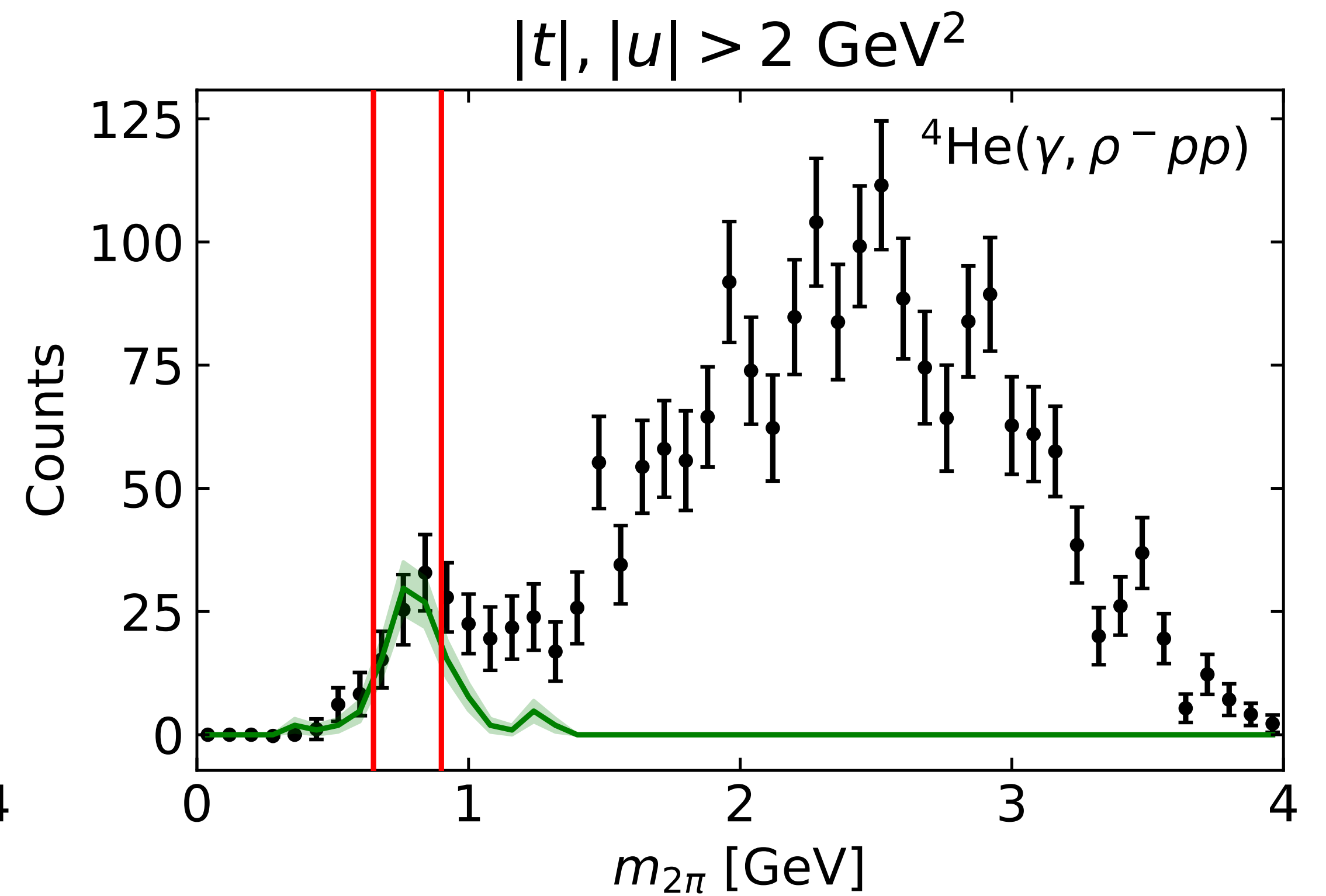
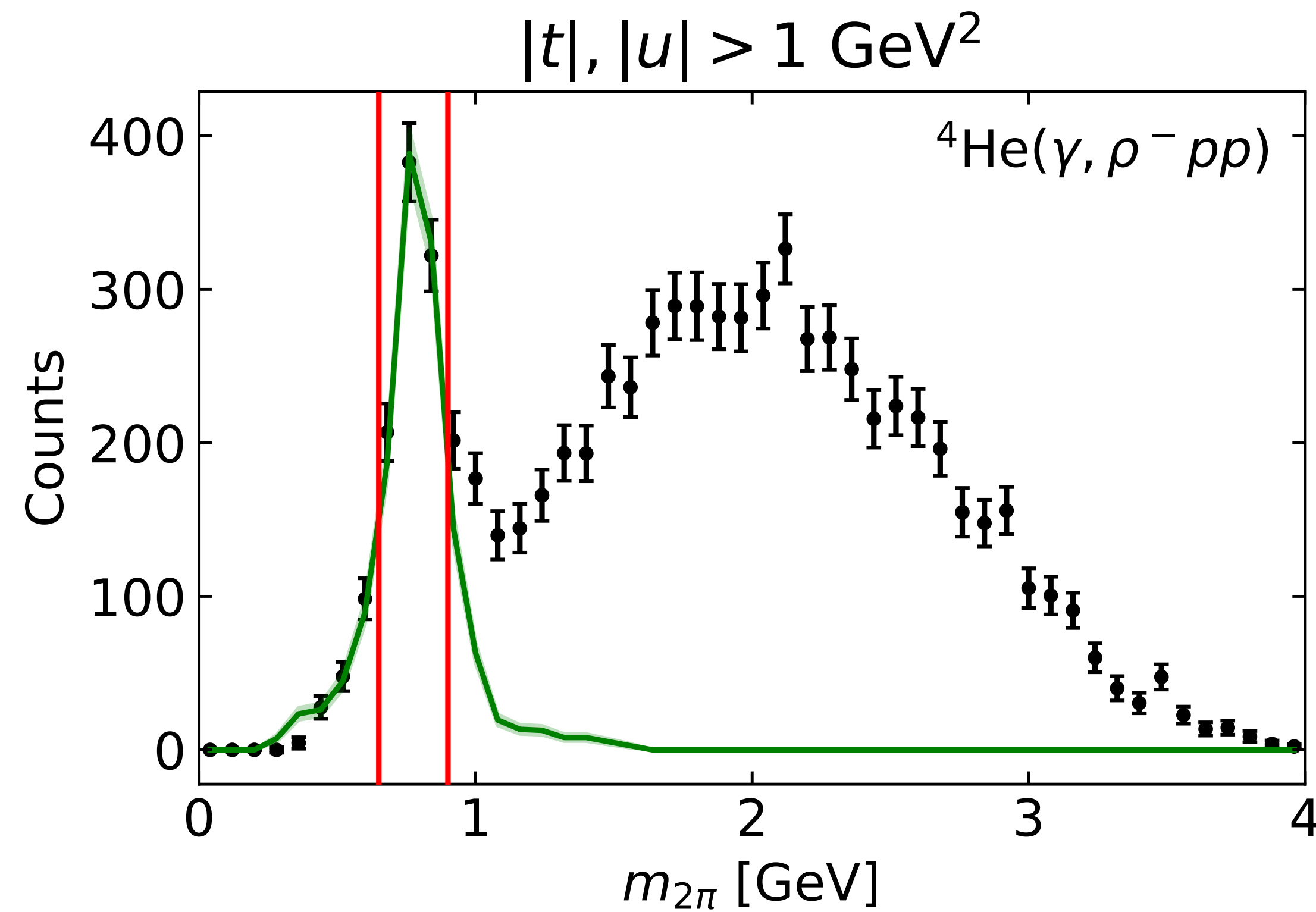
Cuts Applied

- $CL > 0.0001$
- dE/dx cut for PID
- Vertex cuts
- Calorimeter neutral shower position and timing cuts
- Background cuts for ω events
- $E_{measured} > 7 \text{ GeV}$
- $E_\gamma > 6 \text{ GeV}$
- $|E_{measured} - m_N - E_\gamma| < 1 \text{ GeV}$
- $k_{miss} > 0.4 \text{ GeV}$
- $p_{rec} > 0.3 \text{ GeV}$

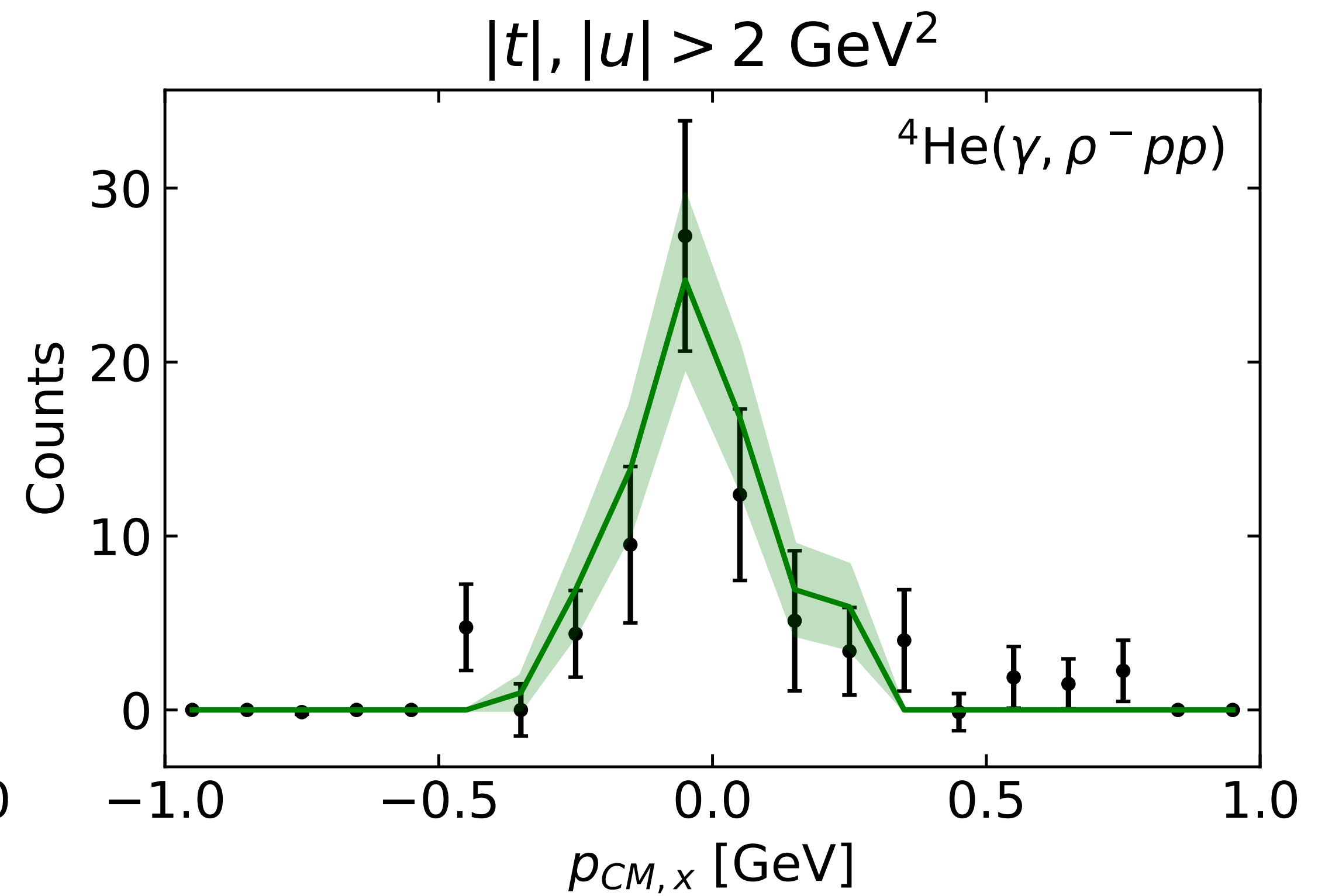
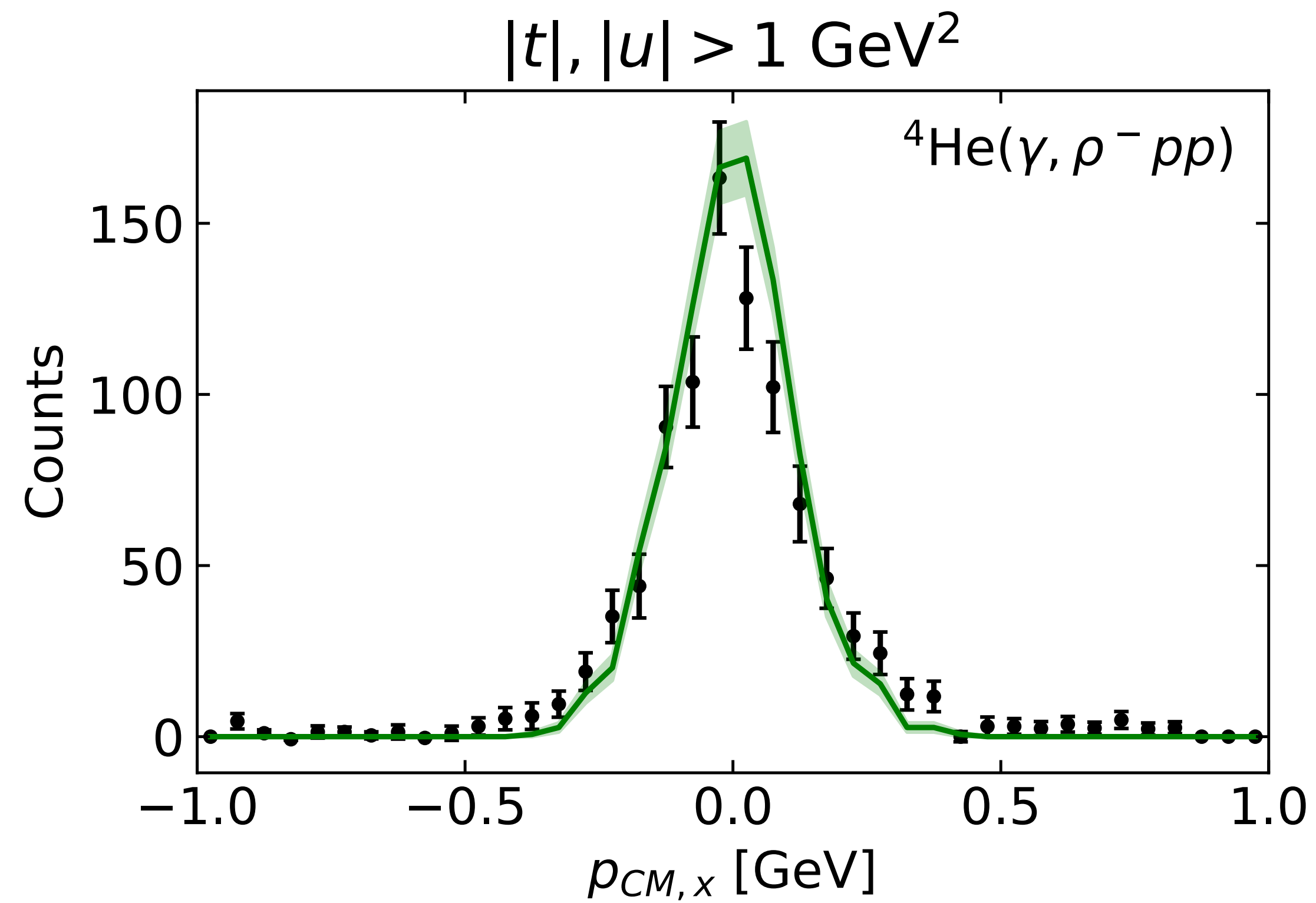
$3\pi\rho$ Background Cut



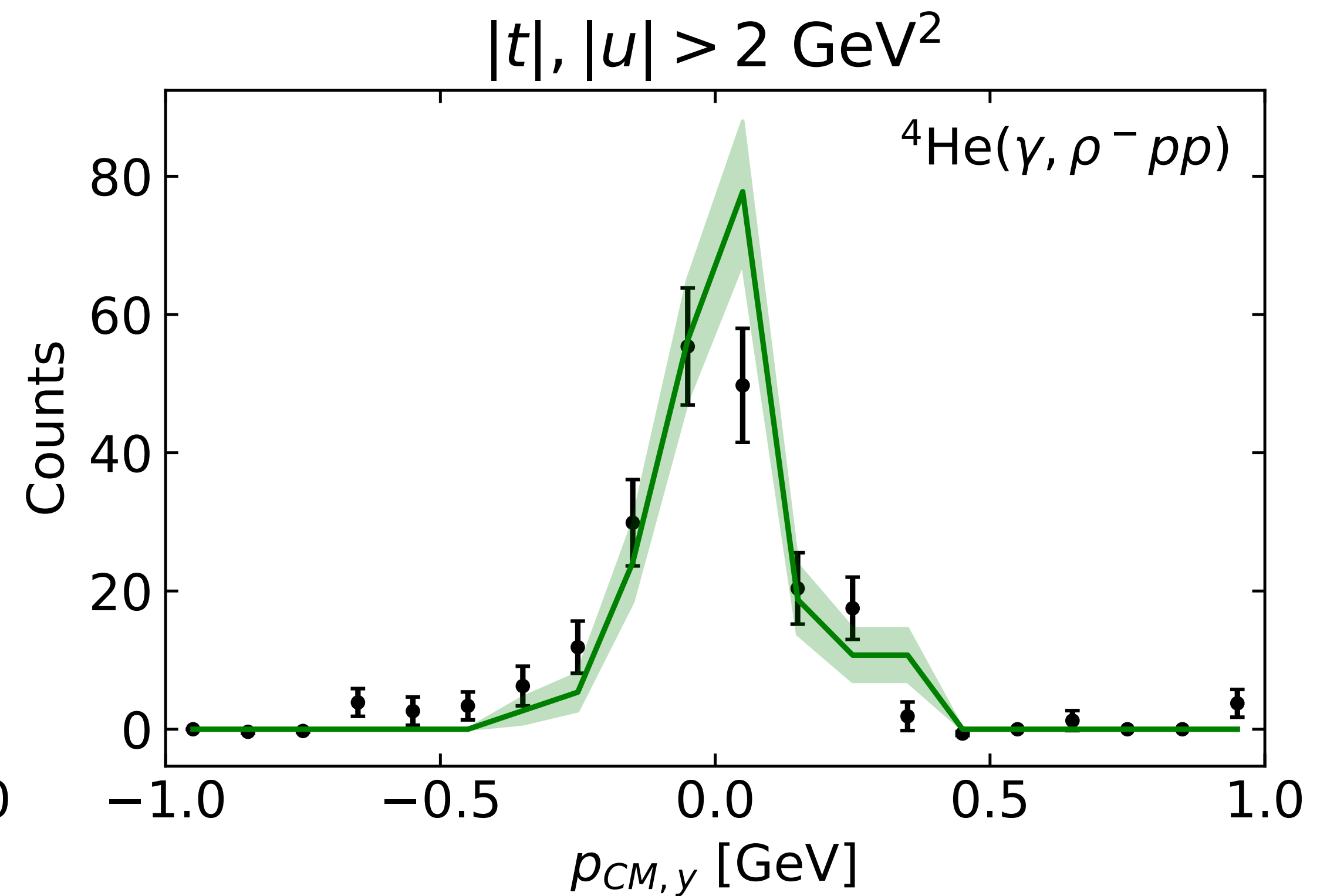
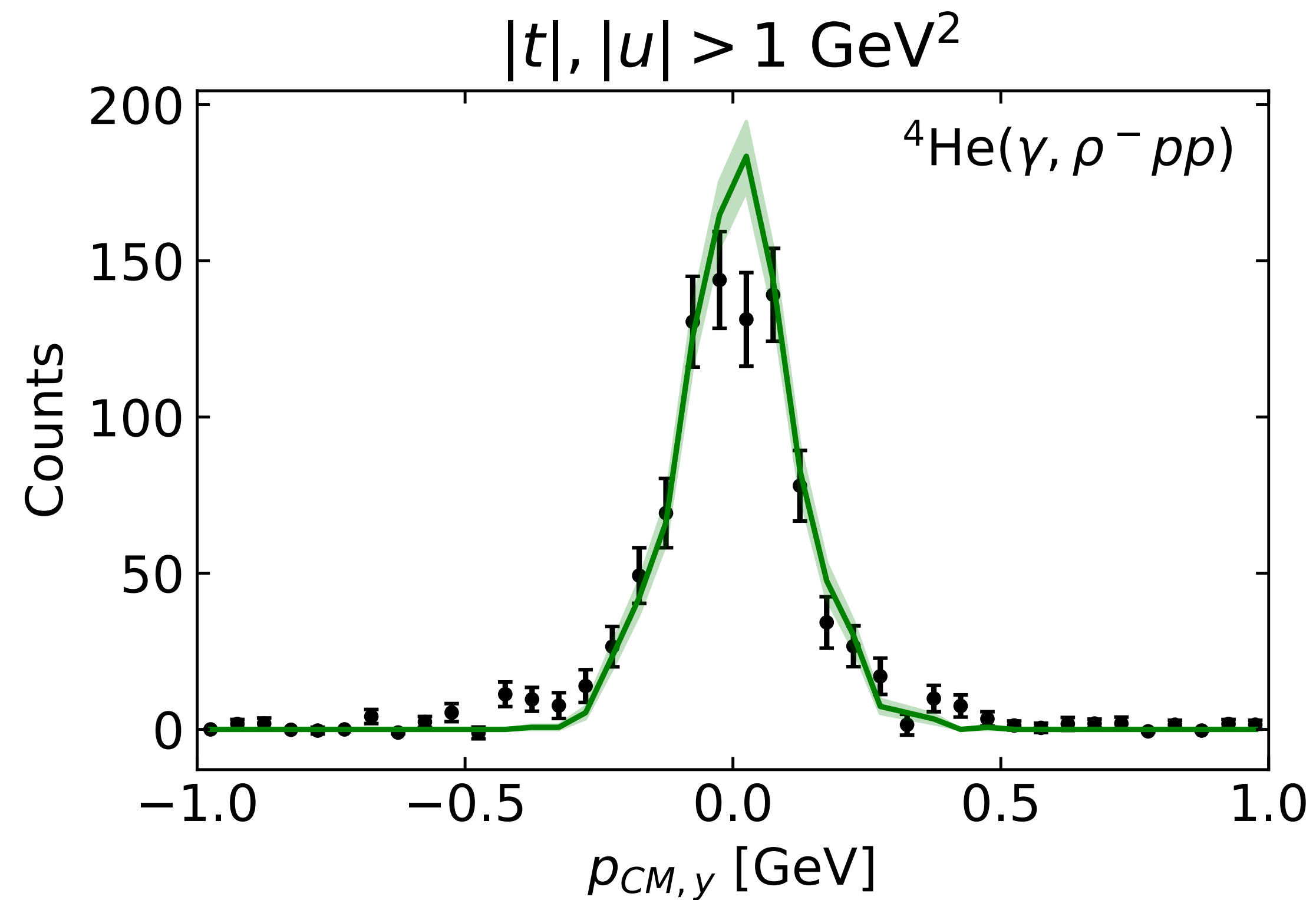
Cut on ρ^- mass



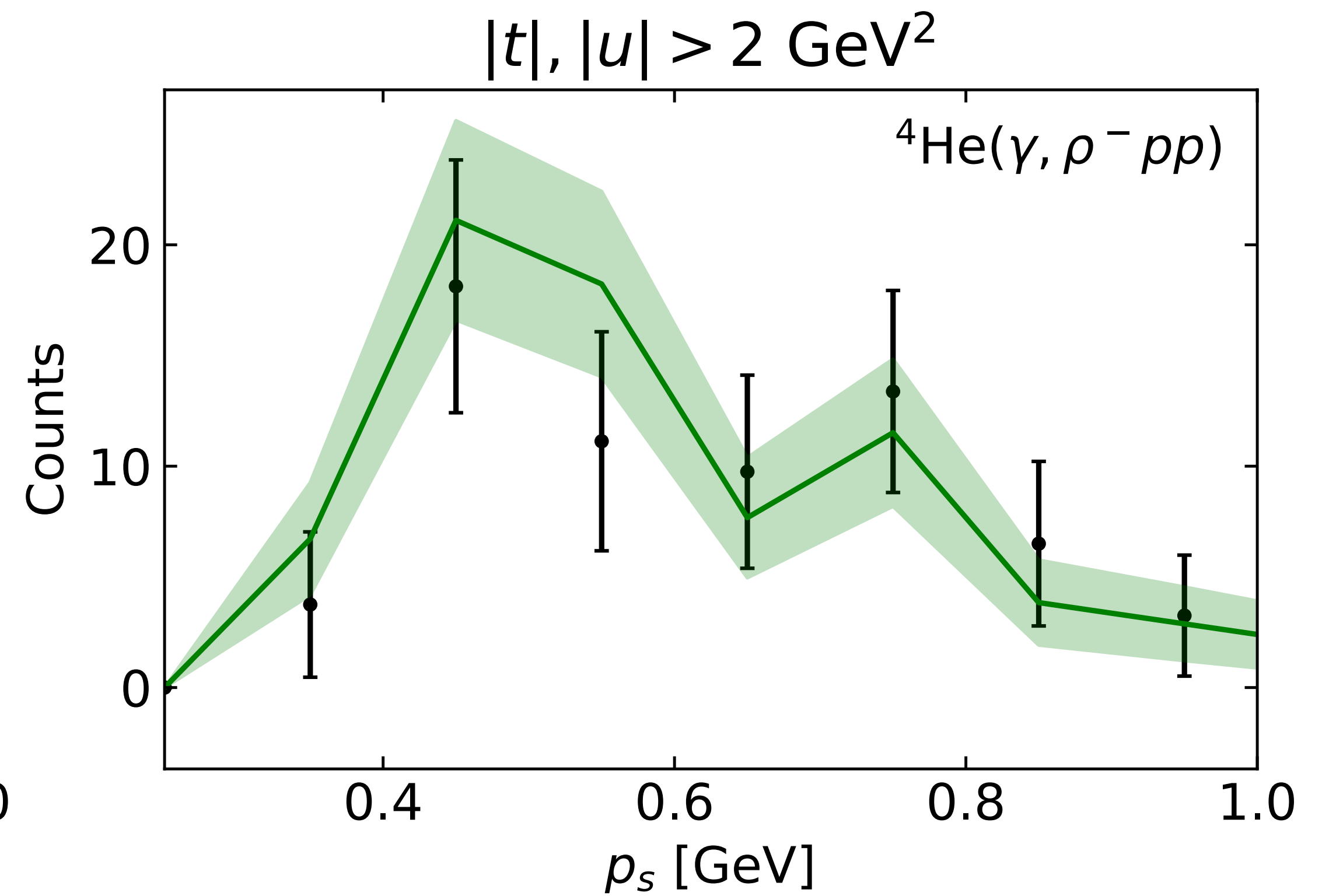
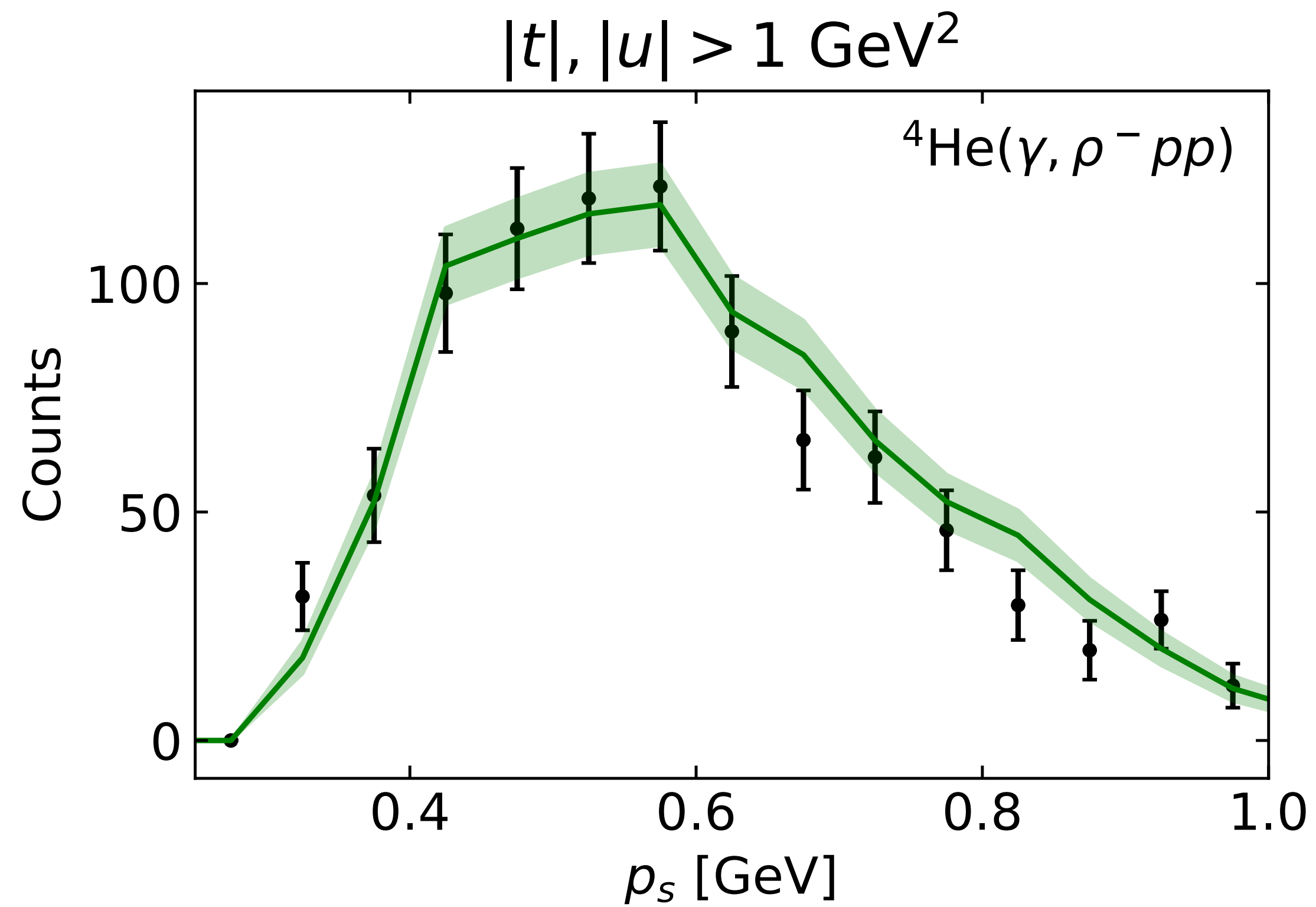
CM Transverse Components



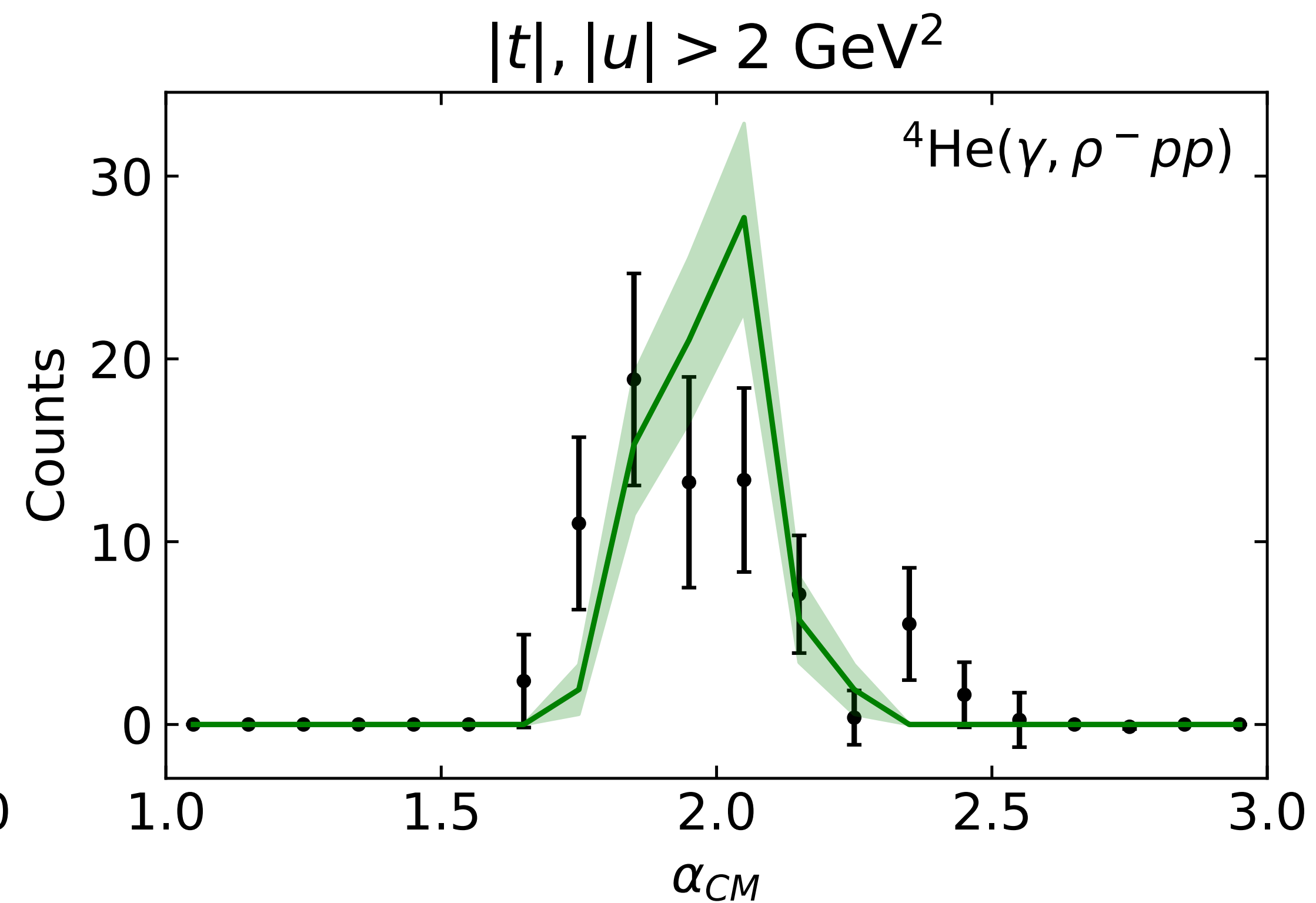
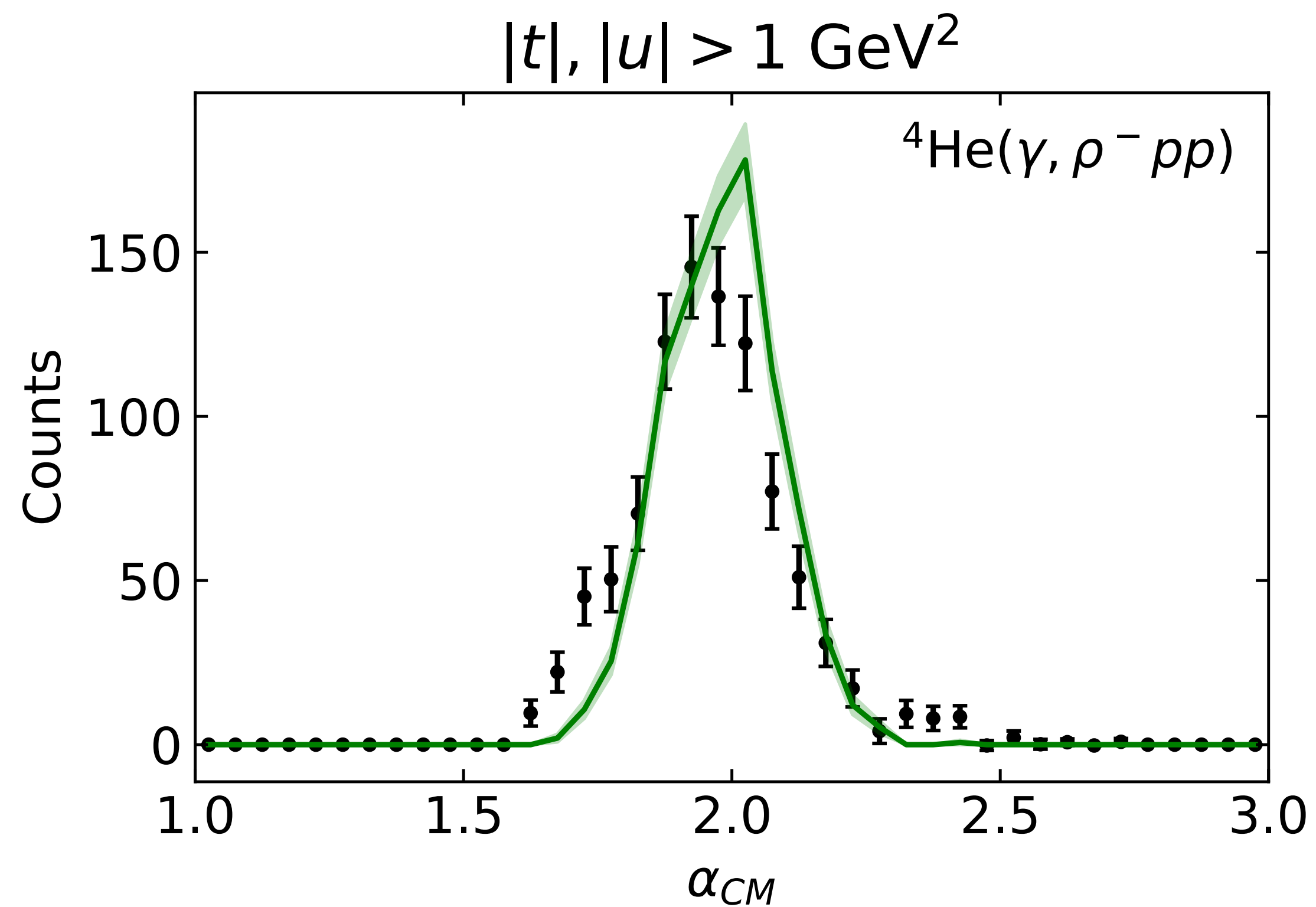
CM Transverse Components



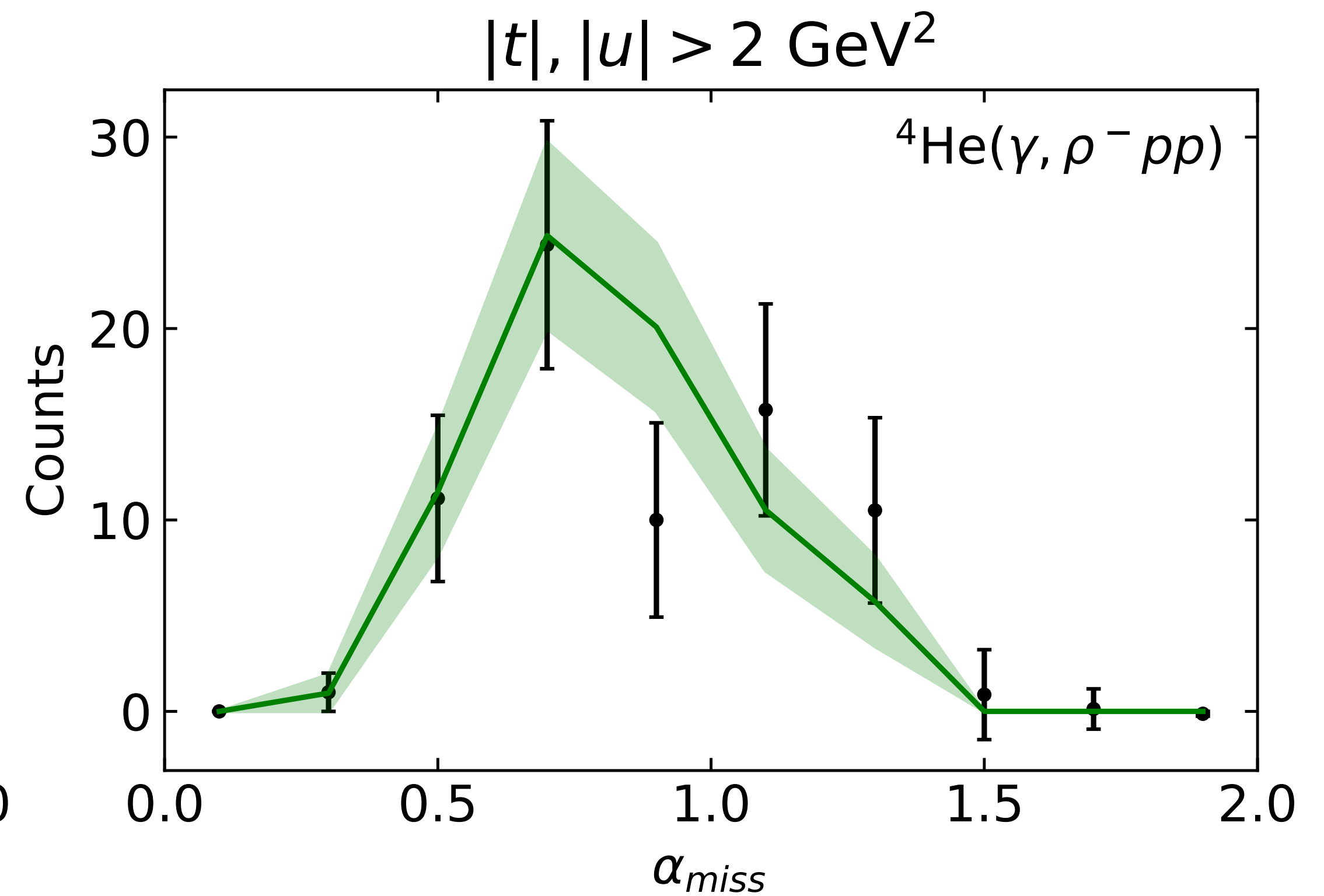
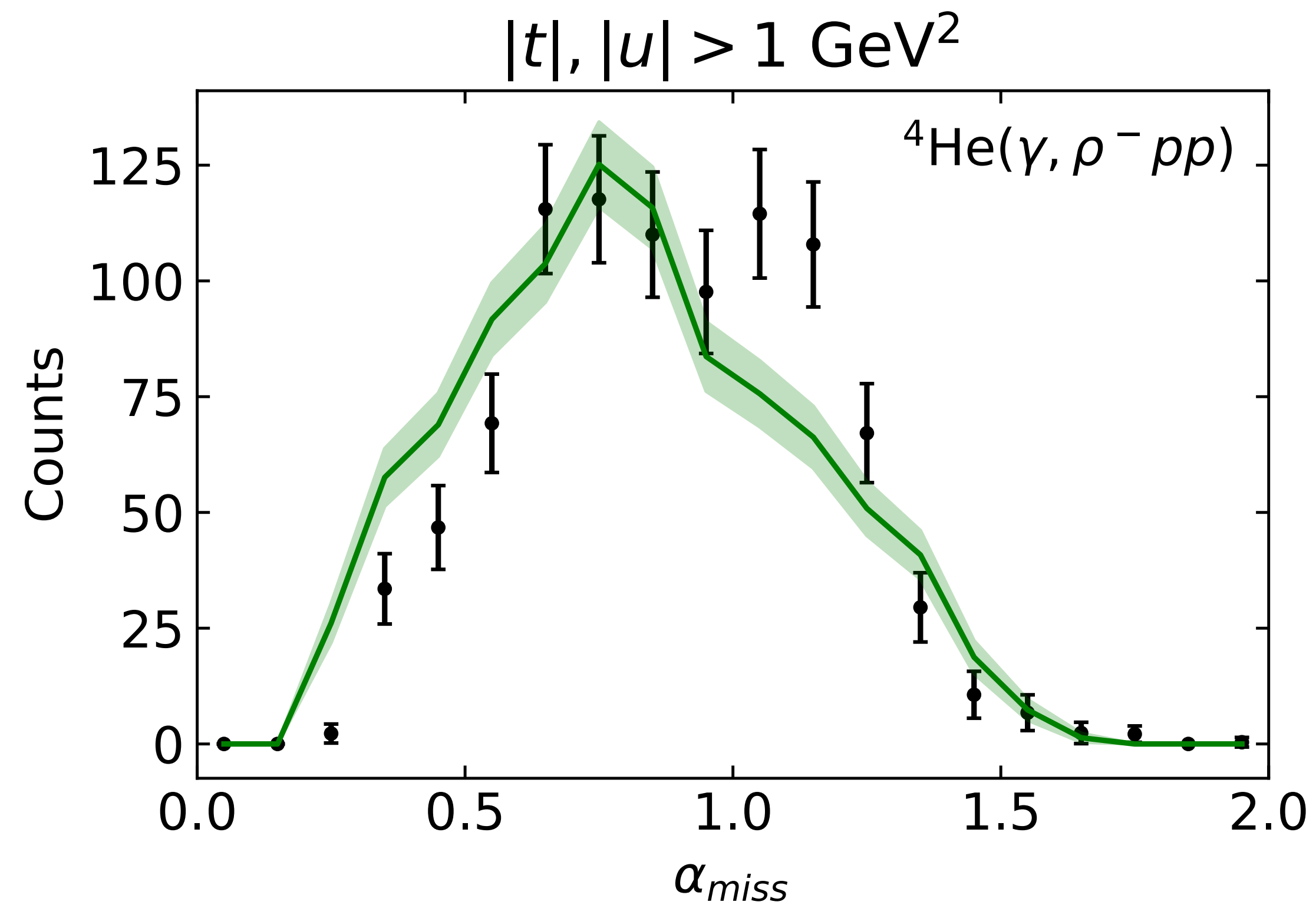
Spectator Momentum



CM Lightcone Fraction



Missing Lightcone Fraction



Spectator Lightcone Fraction

