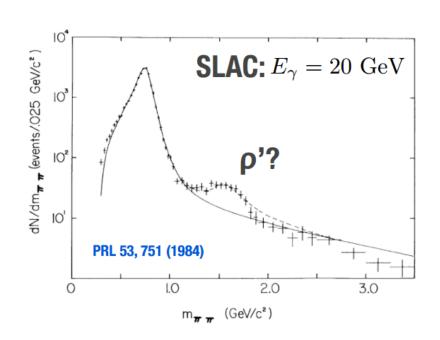
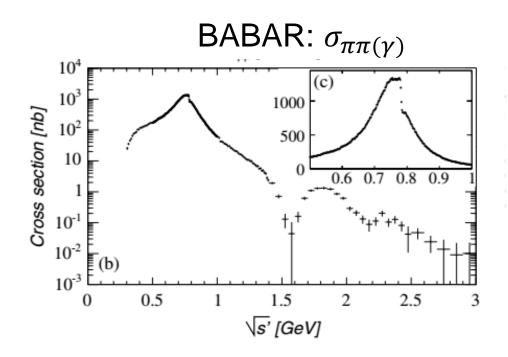


ρ -like Resonance(s?)

- Seen in photoproduction and e^+e^- experiments, early as 1984
- PDG now lists two resonances: $\rho(1450)$ and $\rho(1700)$ (see mini-review)

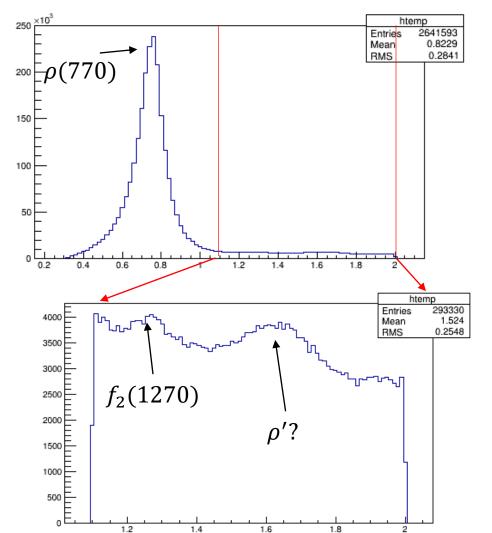




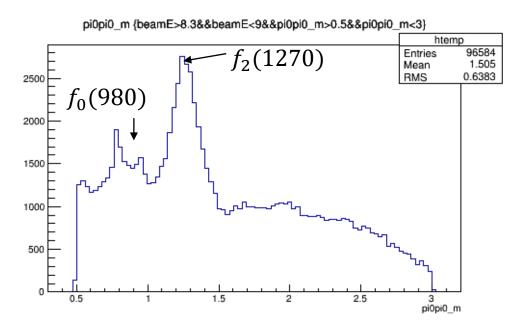


GlueX: $\pi^+\pi^-$ and $\pi^0\pi^0$ Final States





$\pi^0\pi^0$ Final States



- Lack of ~1600 MeV state(s) in $\pi^0\pi^0$ would imply J=1 state
- $\pi^0\pi^0$ also serves to constrain background S and D waves by isospin symmetry



Moment Sum Analysis

• $\sum_{i} Y^{\ell}_{m}(\theta_{i}, \psi_{i})$ in bins of mass

