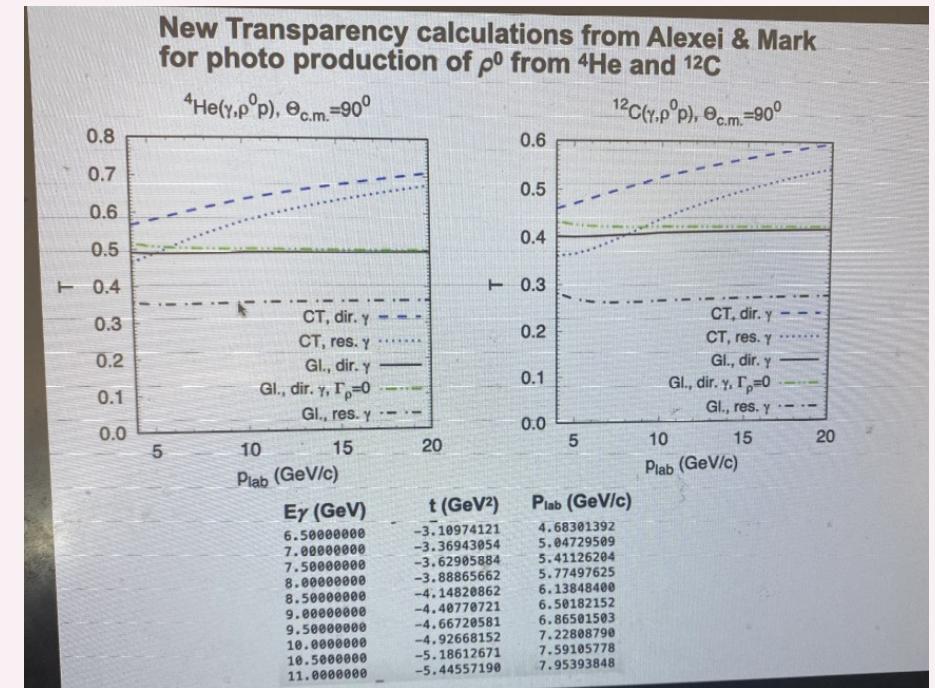
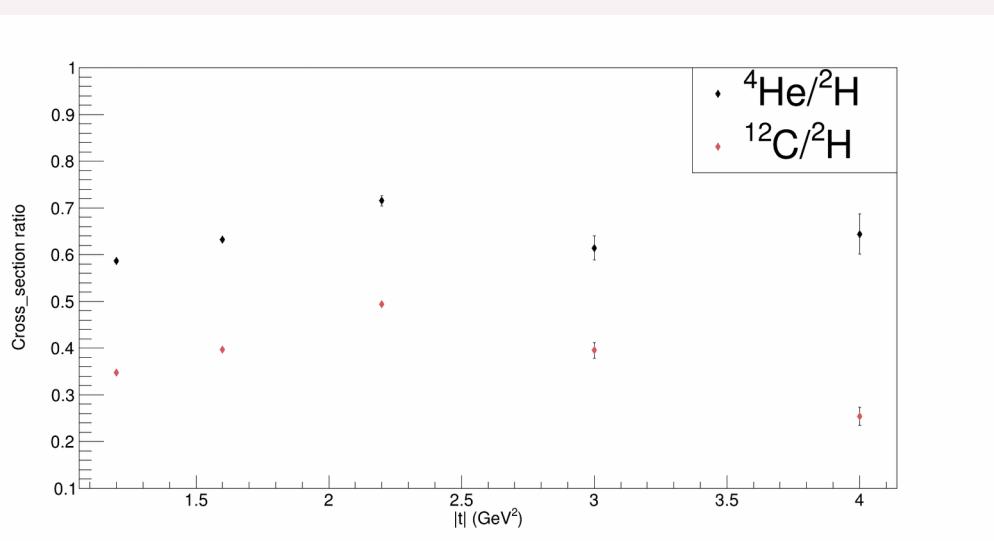


# Cross Sectional Ratio for Rho0 meson

Theoretical Cross\_section ratio as a function of Plab

Experimental Cross\_section ratio as a function of  $|t|$



# A) Transparency for Pion photoproduction

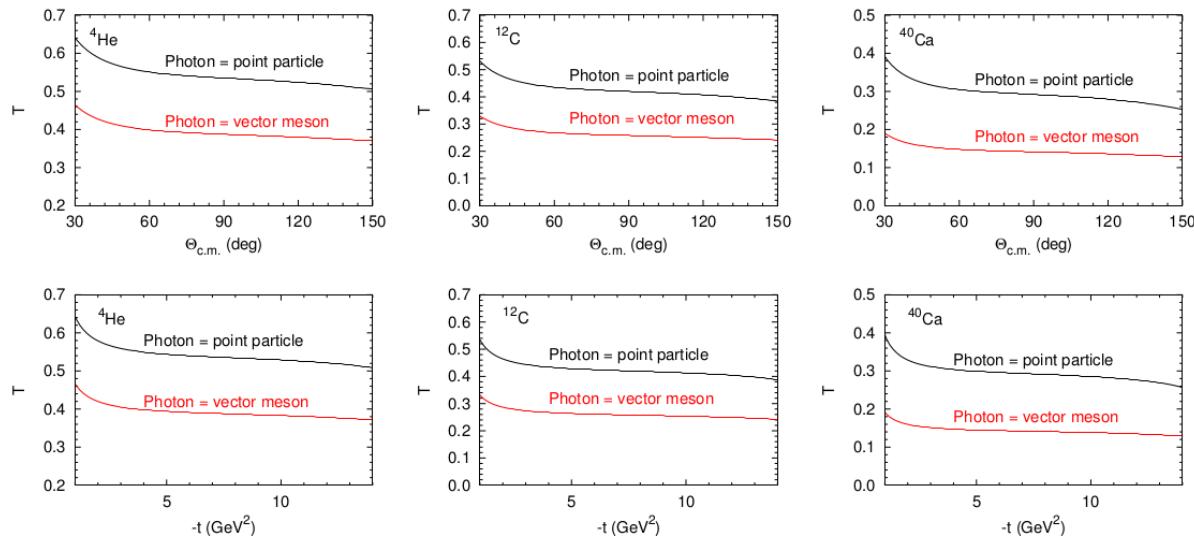


Figure 2: Calculated transparency (ratio of full calculation to plane wave calculation) for pion photoproduction reaction off a neutron ( $\gamma n \rightarrow \pi^- p$ ) in  ${}^4\text{He}$  (left column),  ${}^{12}\text{C}$  (middle column), and  ${}^{40}\text{Ca}$  (right column) as a function of the center-of-mass scattering angle (top row) and momentum transfer  $t$  (bottom row). The different lines correspond to calculations describing the photon interaction as a superposition of vector mesons (red) and as a point-like particle (black), See Ref. [9] for details.

## B) Transparency for Pion photoproduction

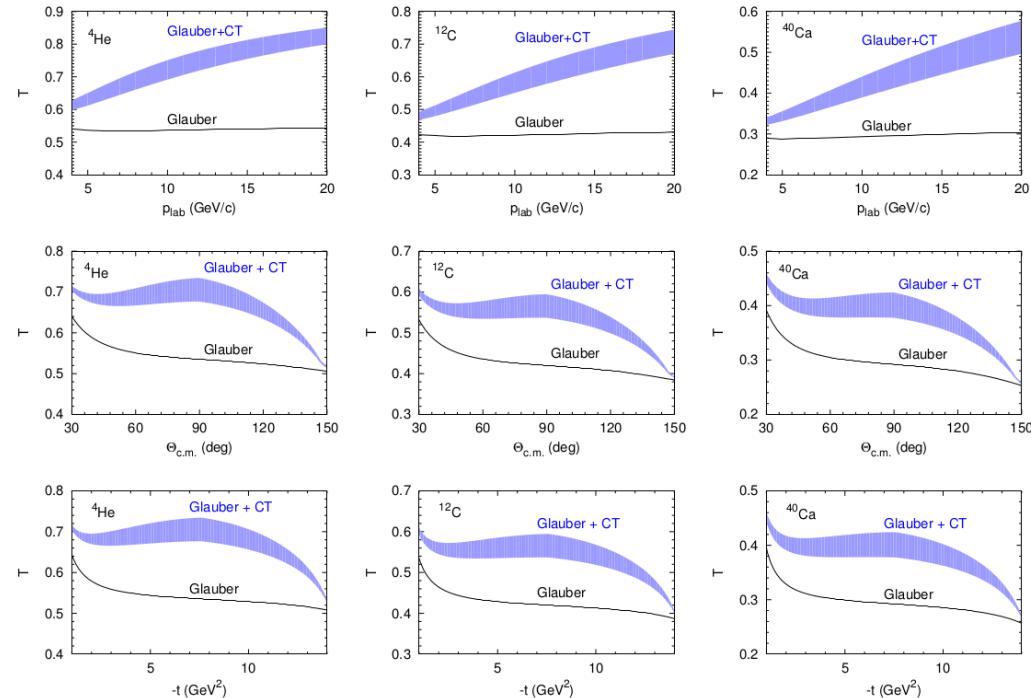
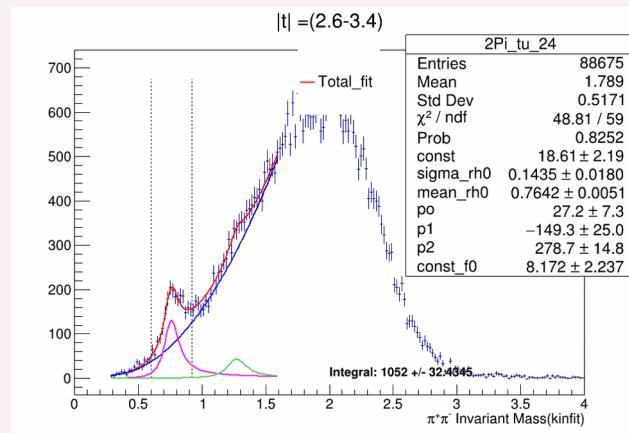
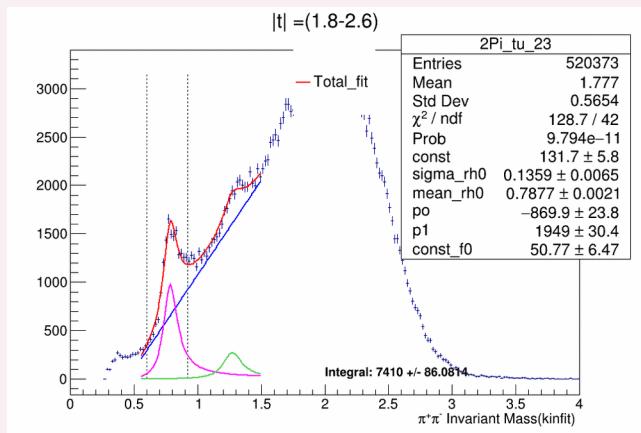
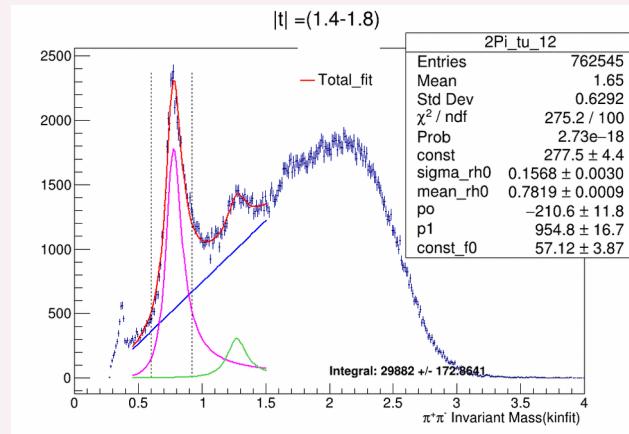
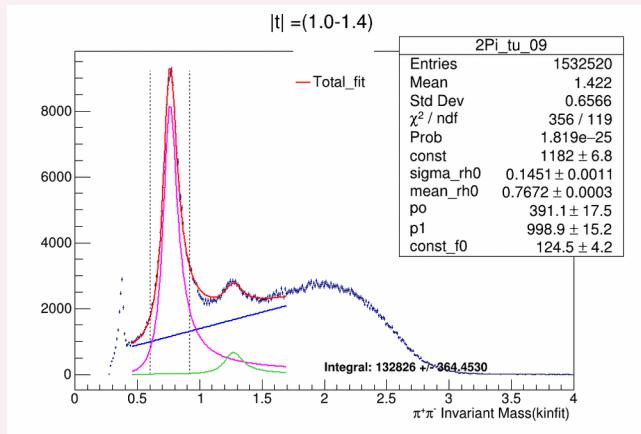


Figure 4: The transparency for the  $A(\gamma, \pi^- p)$  reaction for  $^4\text{He}$  (left column),  $^{12}\text{C}$  (middle column), and  $^{40}\text{Ca}$  (right column) shown as a function of the photon energy for a  $90^\circ$  c.m. scattering angle (top row), of c.m. scattering angle (middle row), and of momentum transfer (bottom row) for 9 GeV

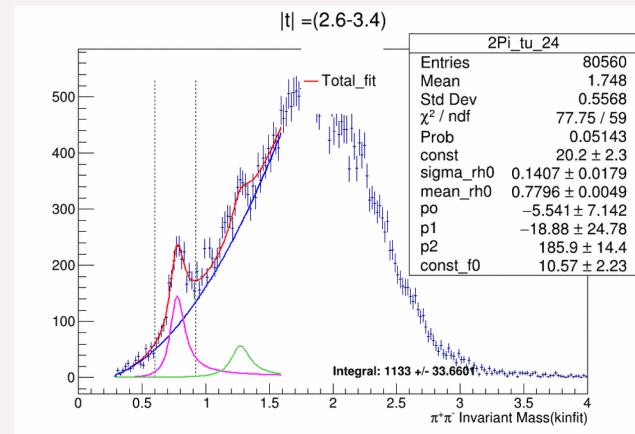
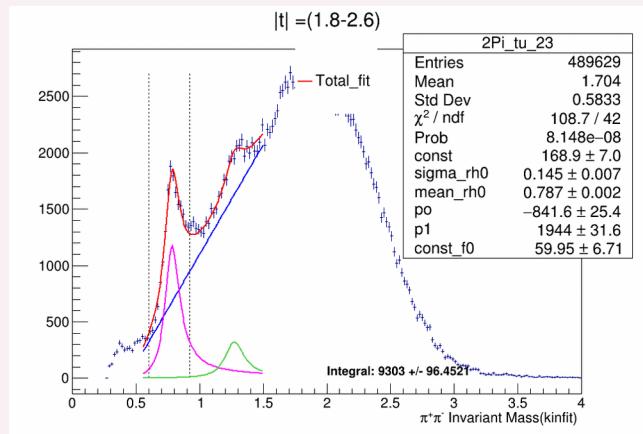
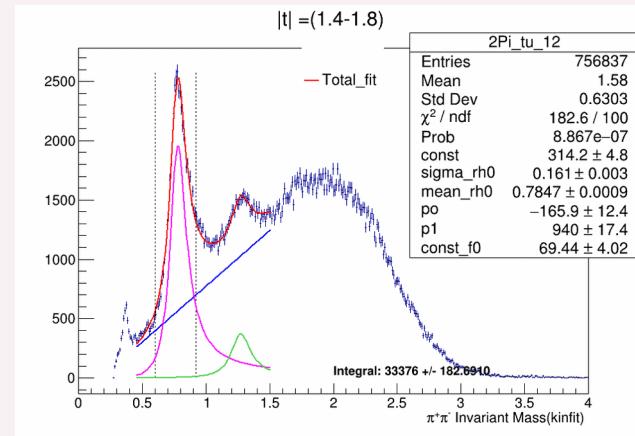
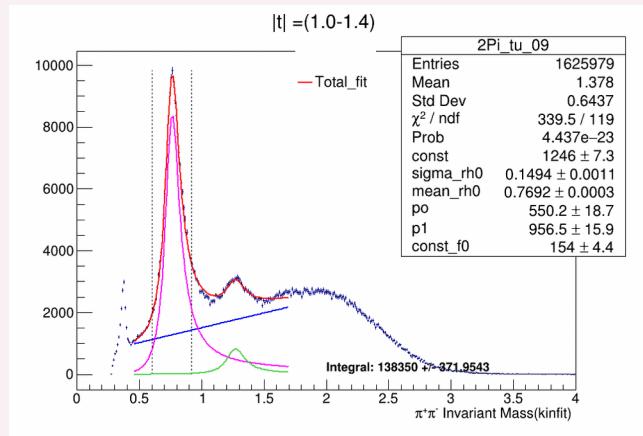
# Backup

- Backup

# Deuterium



# Helium



# Carbon

