

# DUNE:ProtoDUNE-SP Simulation

# 2GeV/c Pion Beam

Candidates

Data/MC

- Signal (Charge Exchange) (14.7%)
- Absorption Background (3.2%)
- Pion Production Background ( $\pi^0 = 0$ ) (22.22%)
- Pion Production Background ( $\pi^0 = 1$ ) (37.07%)
- Pion Production Background ( $\pi^0 > 1$ ) (22.66%)
- Beam Background (0.11%)
- Data
- MC

