

# DUNE:ProtoDUNE-SP Simulation

# 2GeV/c Pion Beam

Candidates

Data/MC

- Signal (Charge Exchange) (9.2%)
- Absorption Background (7.6%)
- Pion Production Background ( $\pi^0 = 0$ ) (54.28%)
- Pion Production Background ( $\pi^0 = 1$ ) (17.98%)
- Pion Production Background ( $\pi^0 > 1$ ) (5.62%)
- Beam Background (5.36%)
- Data
- MC

