

# DUNE:ProtoDUNE-SP Simulation

# 2GeV/c Pion Beam

Candidates

Data/MC

- Signal (Charge Exchange) (29.7%)
- Absorption Background (1.2%)
- Pion Production Background ( $\pi^0 = 0$ ) (18.36%)
- Pion Production Background ( $\pi^0 = 1$ ) (20.28%)
- Pion Production Background ( $\pi^0 > 1$ ) (30.42%)
- Beam Background (0.00%)
- Data
- MC

