

# DUNE:ProtoDUNE-SP Simulation

# 1GeV/c Pion Beam

Candidates

Data/MC

- Signal (Charge Exchange) (59.5%)
- Absorption Background (0.5%)
- Pion Production Background ( $\pi^0 = 0$ ) (8.14%)
- Pion Production Background ( $\pi^0 = 1$ ) (14.74%)
- Pion Production Background ( $\pi^0 > 1$ ) (17.10%)
- Beam Background (0.00%)
- Data
- MC

