

# DUNE:ProtoDUNE-SP Simulation

# 2GeV/c Pion Beam

Candidates

- Signal (Charge Exchange) (9.0%)
- Absorption Background (7.6%)
- Pion Production Background ( $\pi^0 = 0$ ) (55.35%)
- Pion Production Background ( $\pi^0 = 1$ ) (18.04%)
- Pion Production Background ( $\pi^0 > 1$ ) (5.51%)
- Beam Background (4.48%)
- Data
- MC

Data/MC

