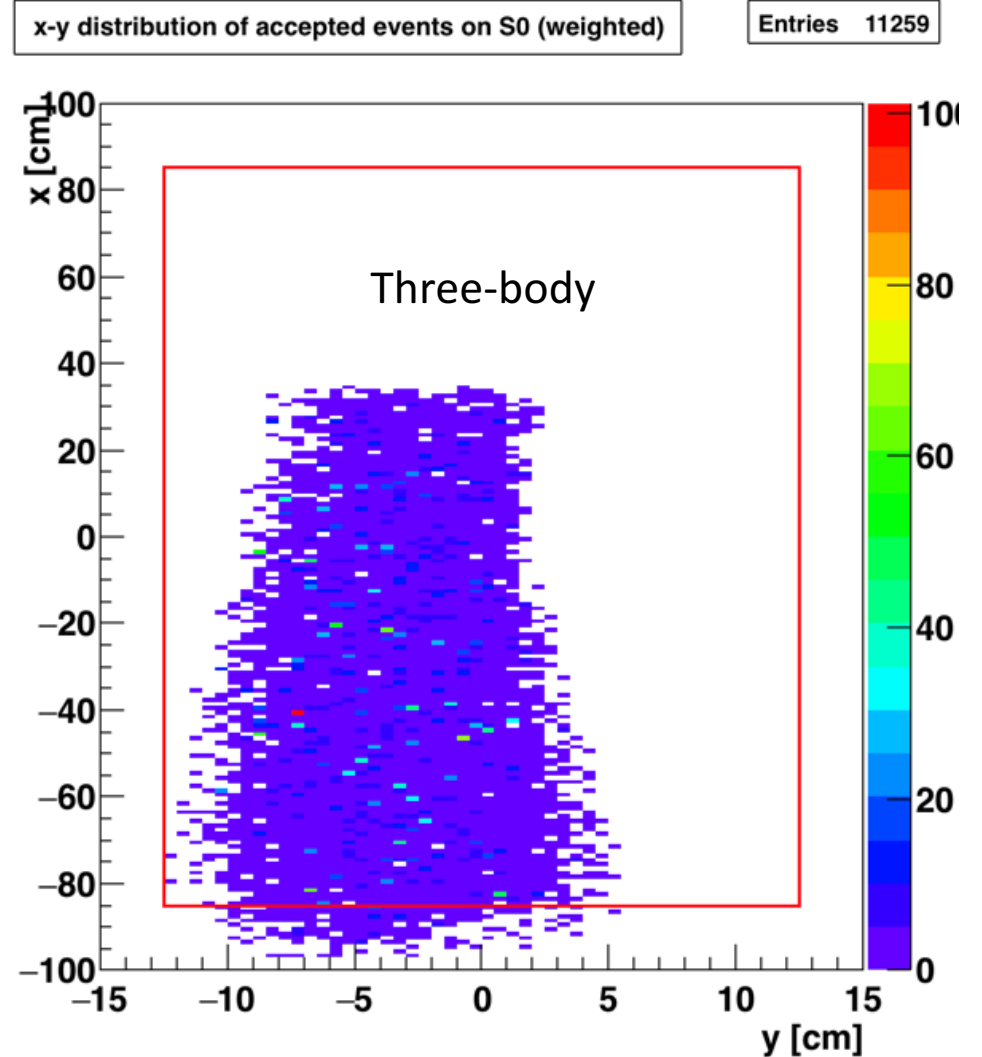
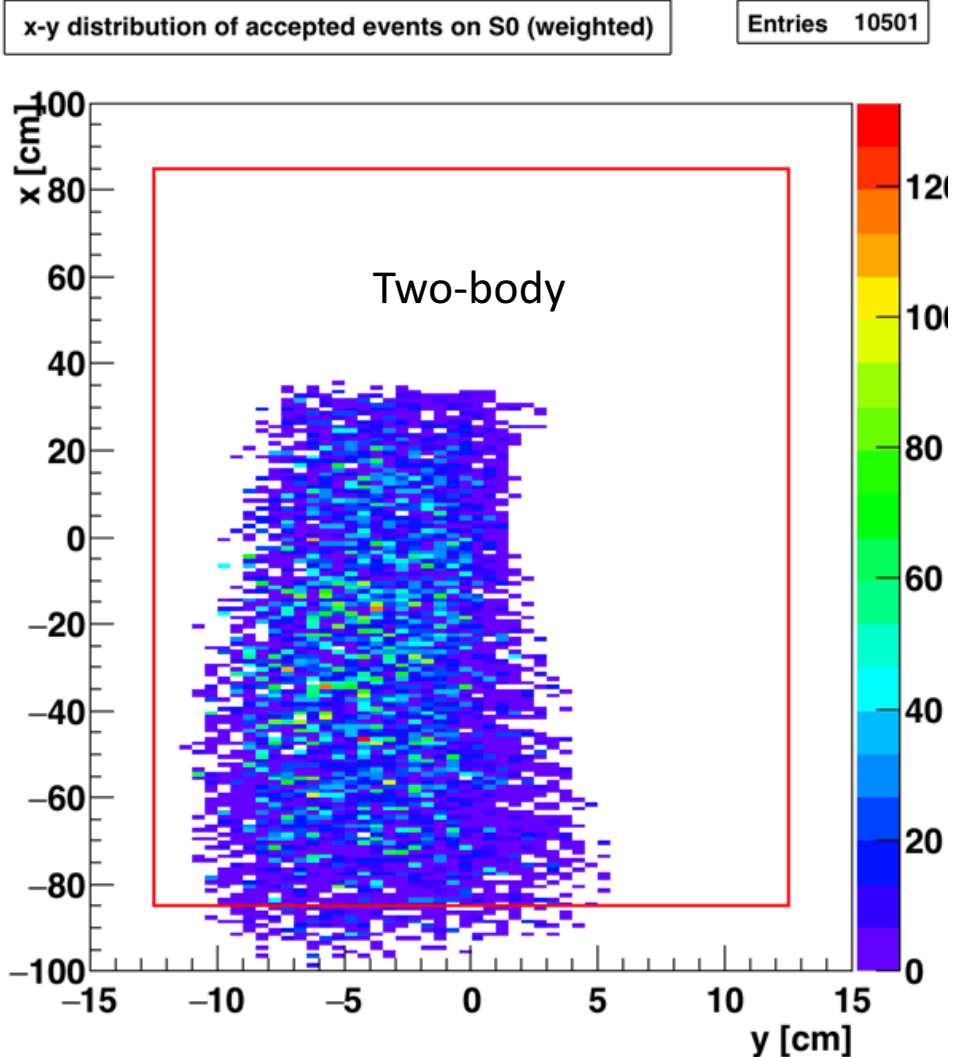


Results for S0 Acceptance Simulations

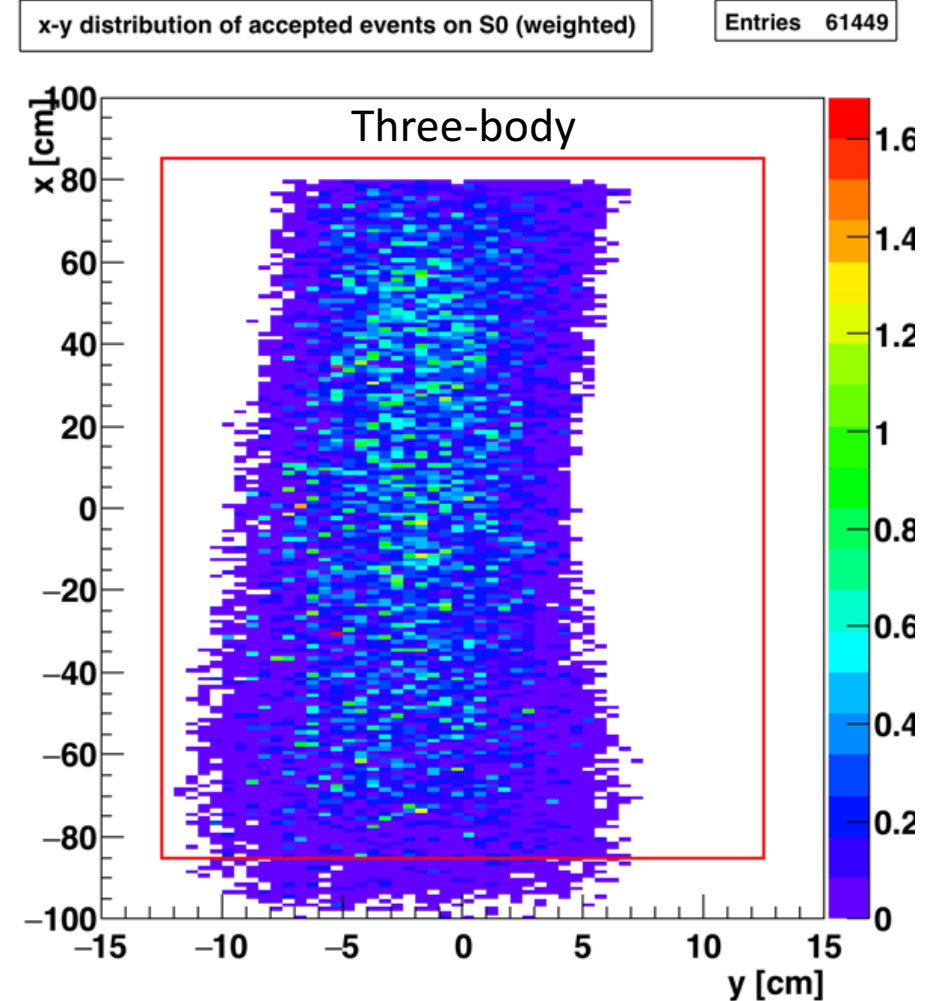
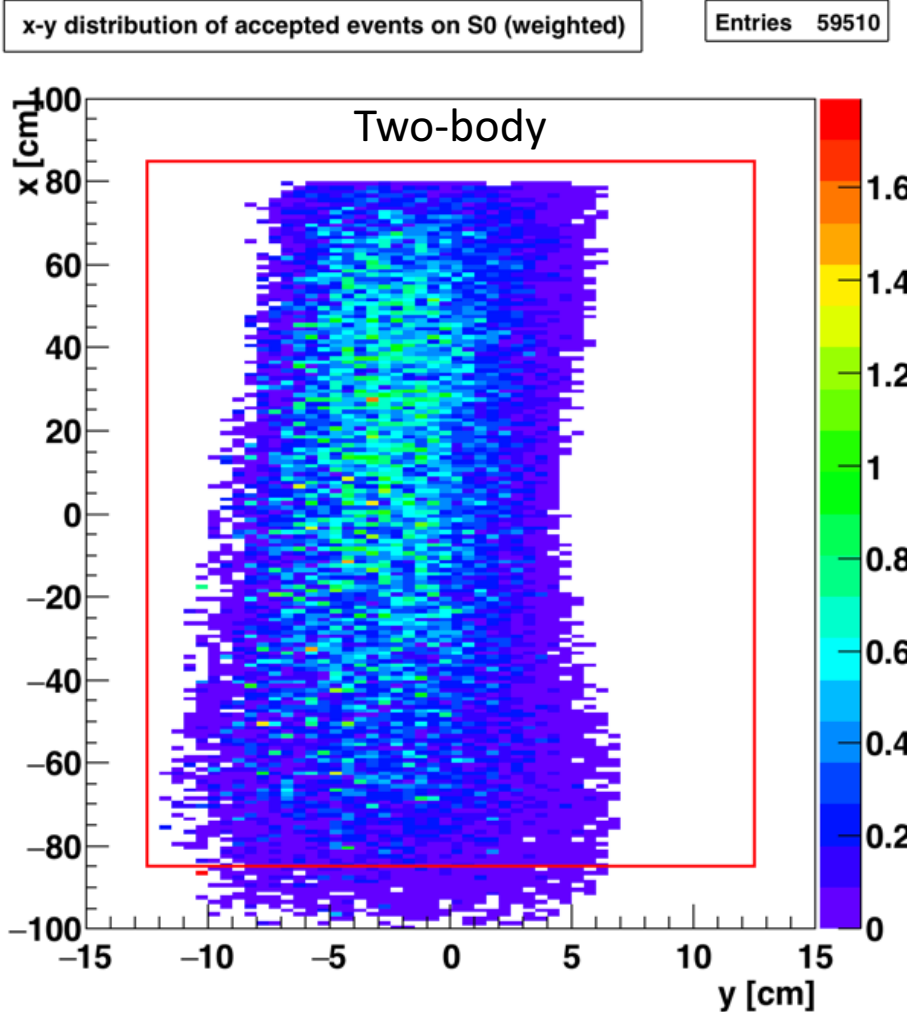
Simulation Settings

- Simulation of He-3 and H-3
- Used Benhar spectral function
- Both kinematic settings as in proposal
- Two-body and three-body breakup for He-3
- Three-body breakup for H-3
- Spectrometer in coincidence but only simulation of detector response in the considered spectrometer arm
- Cuts: $Q^2 > 1.8 \text{ GeV}^2$, $\theta_{qp} < 40^\circ$ in the following plots
- X corresponds to the momentum

Proton arm (RHRS), He-3 fast kinematics

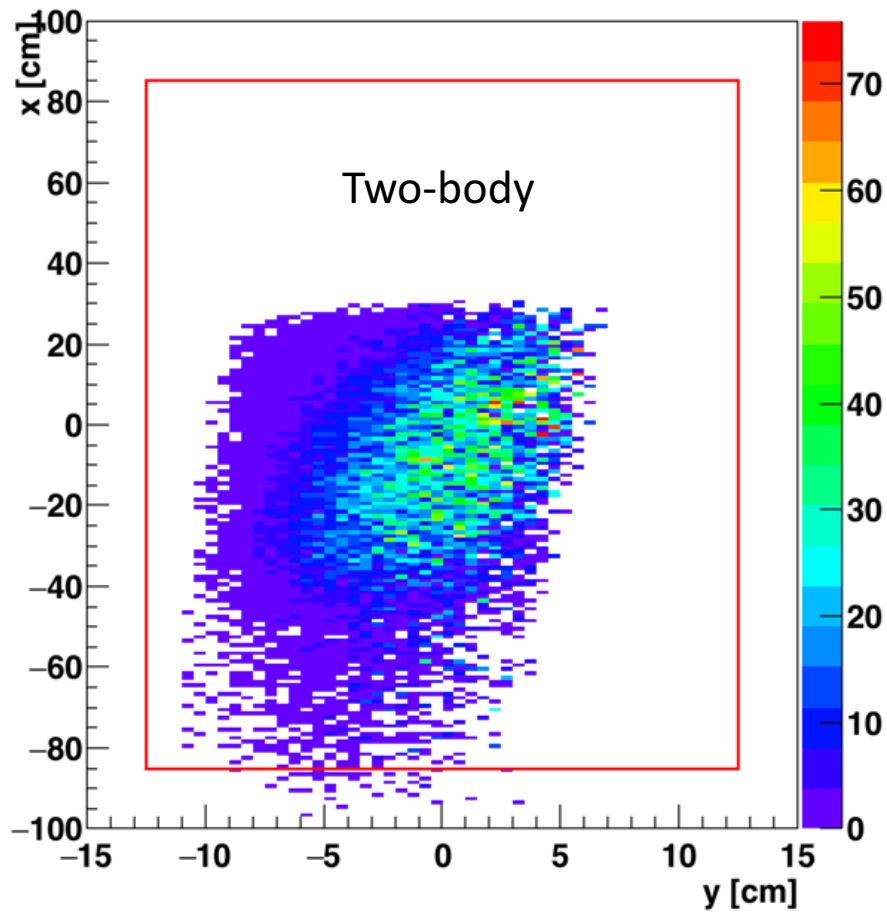


Proton arm (RHRS), He-3 slow kinematics

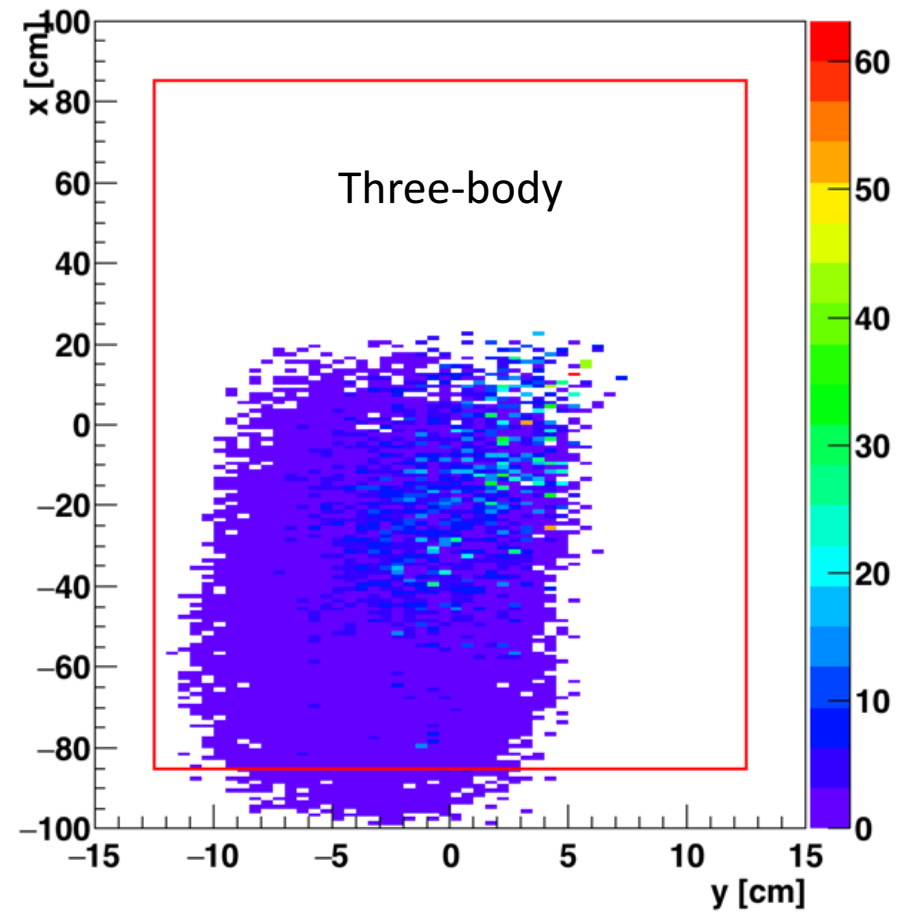


Electron arm (LHRS), He-3 fast kinematics

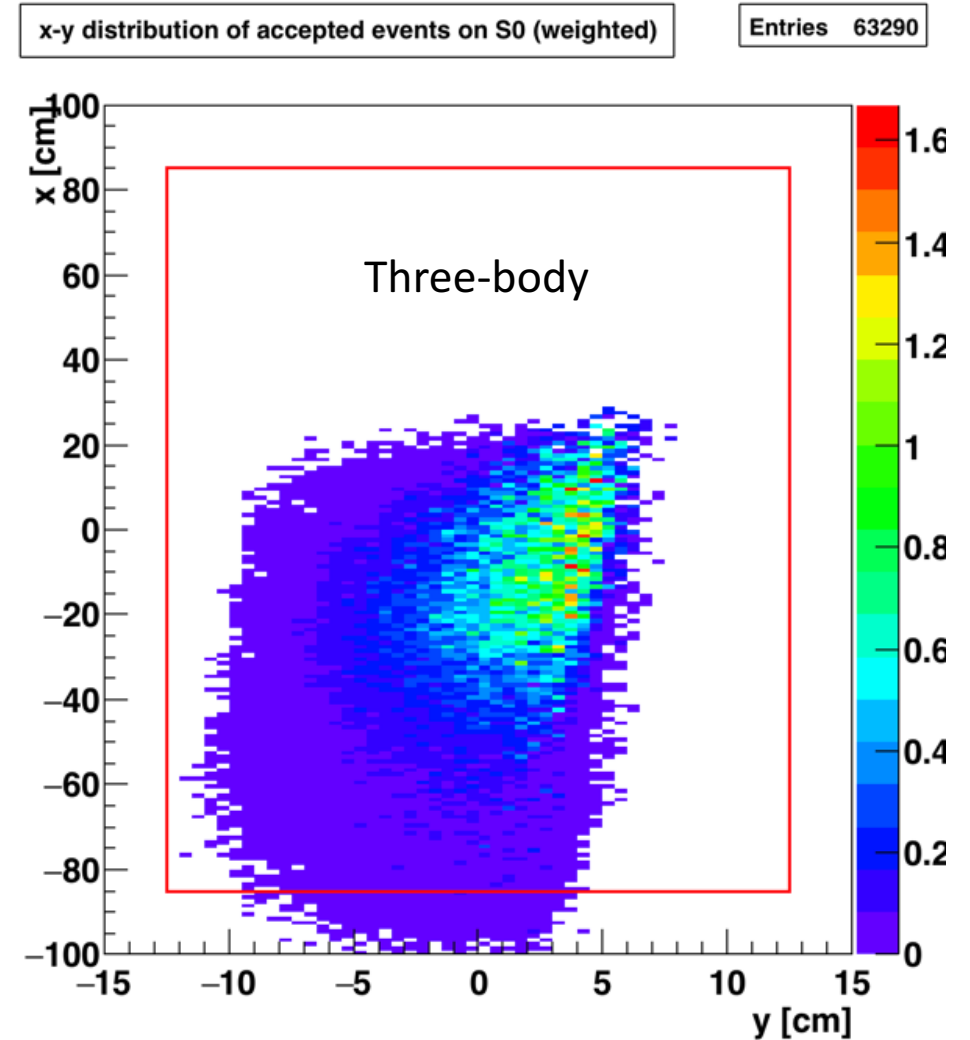
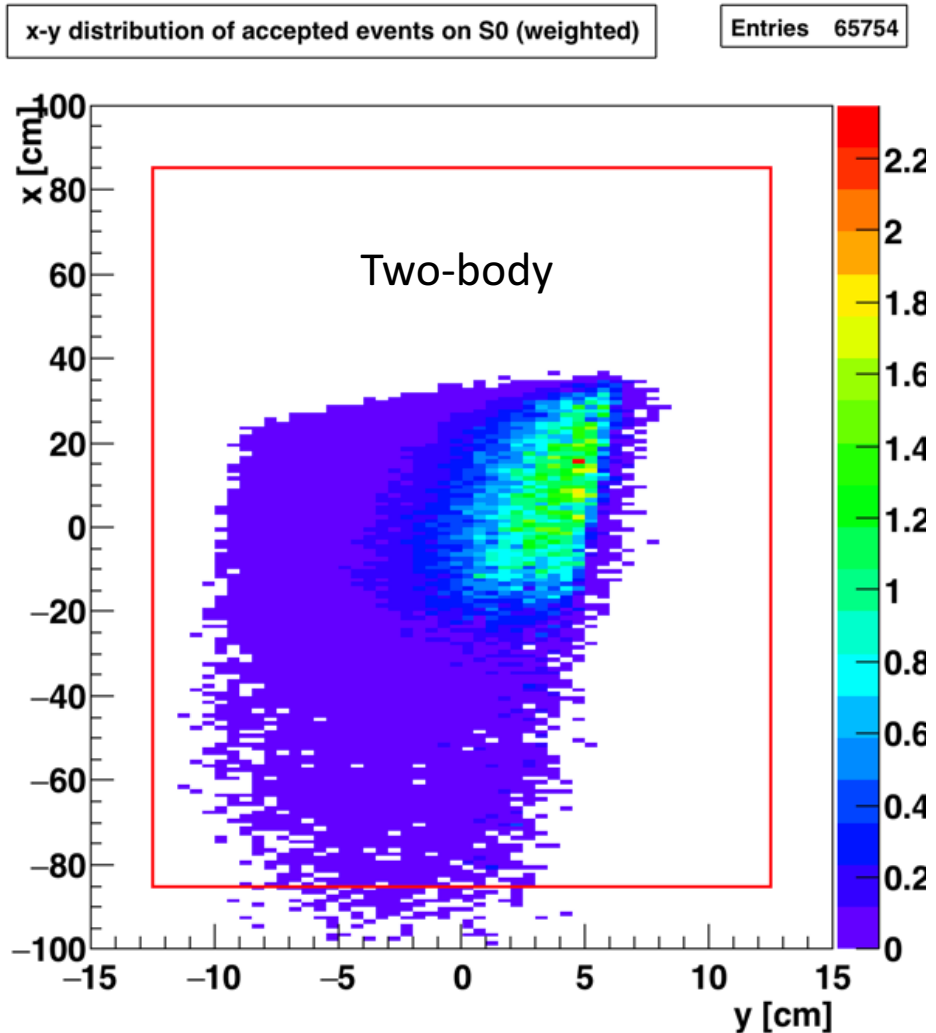
x-y distribution of accepted events on S0 (weighted) Entries 17755



x-y distribution of accepted events on S0 (weighted) Entries 23961



Electron arm (LHRS), He-3 slow kinematics



Results

- Acceptance of S0 in y-direction is no issue
- Momentum setting of electron arm is not optimal -> should be changed
- He-3 and H-3 show almost same distribution

- I am working on the calculation of improved settings and then check with the simulation