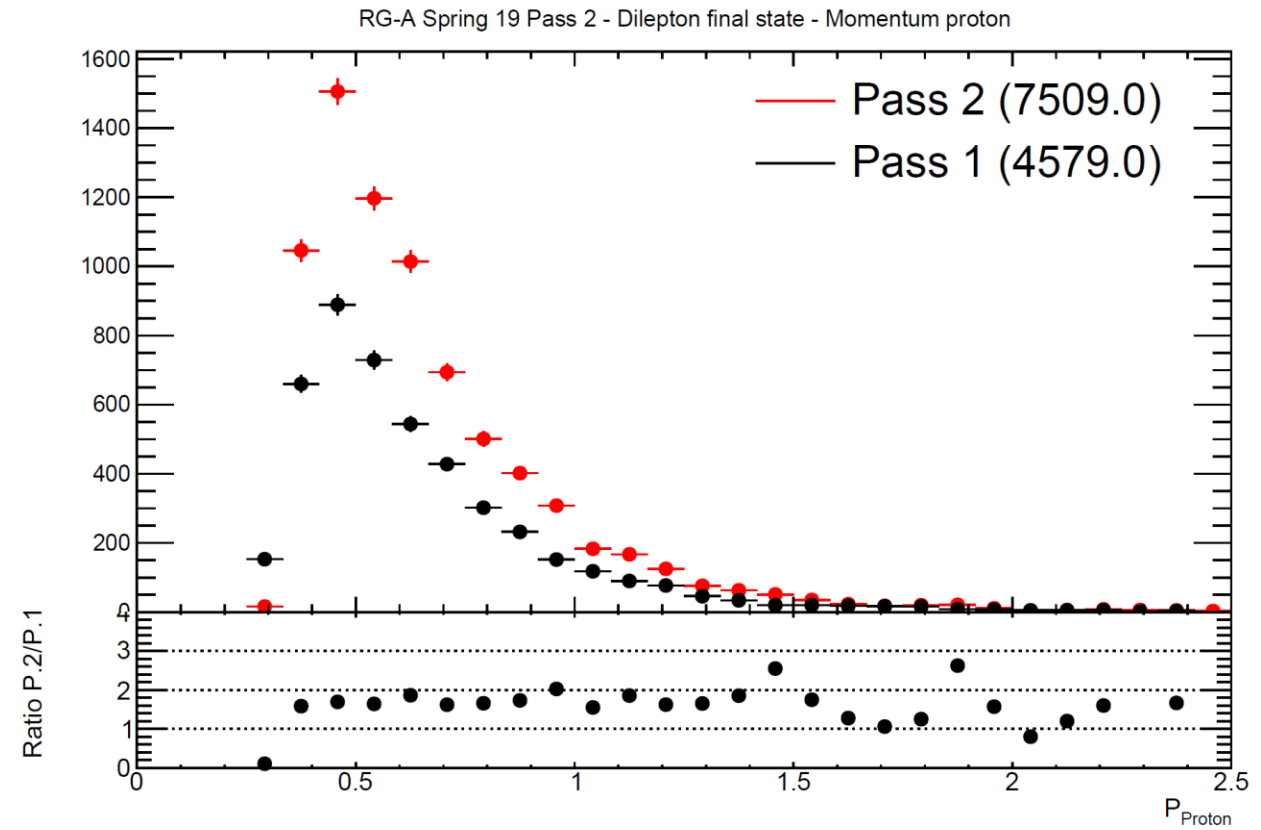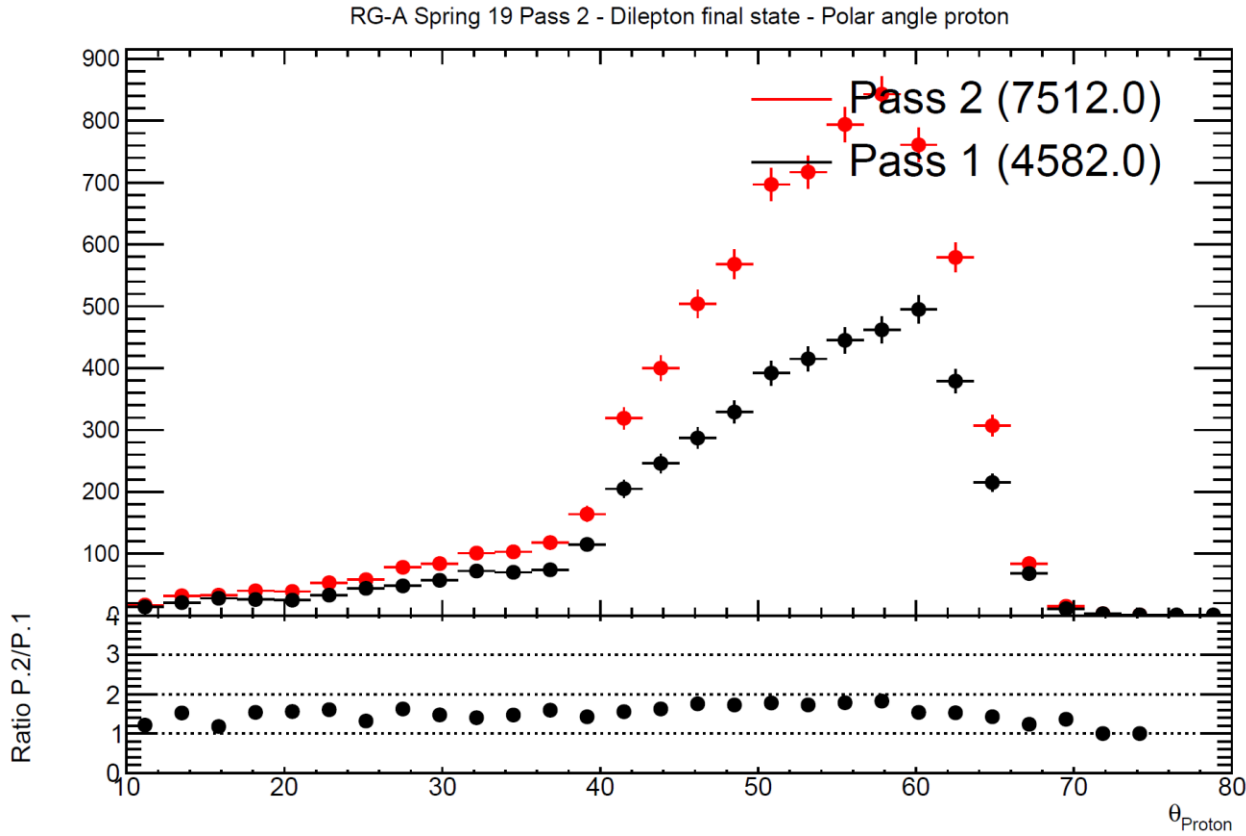# Figures for the collaboration meeting
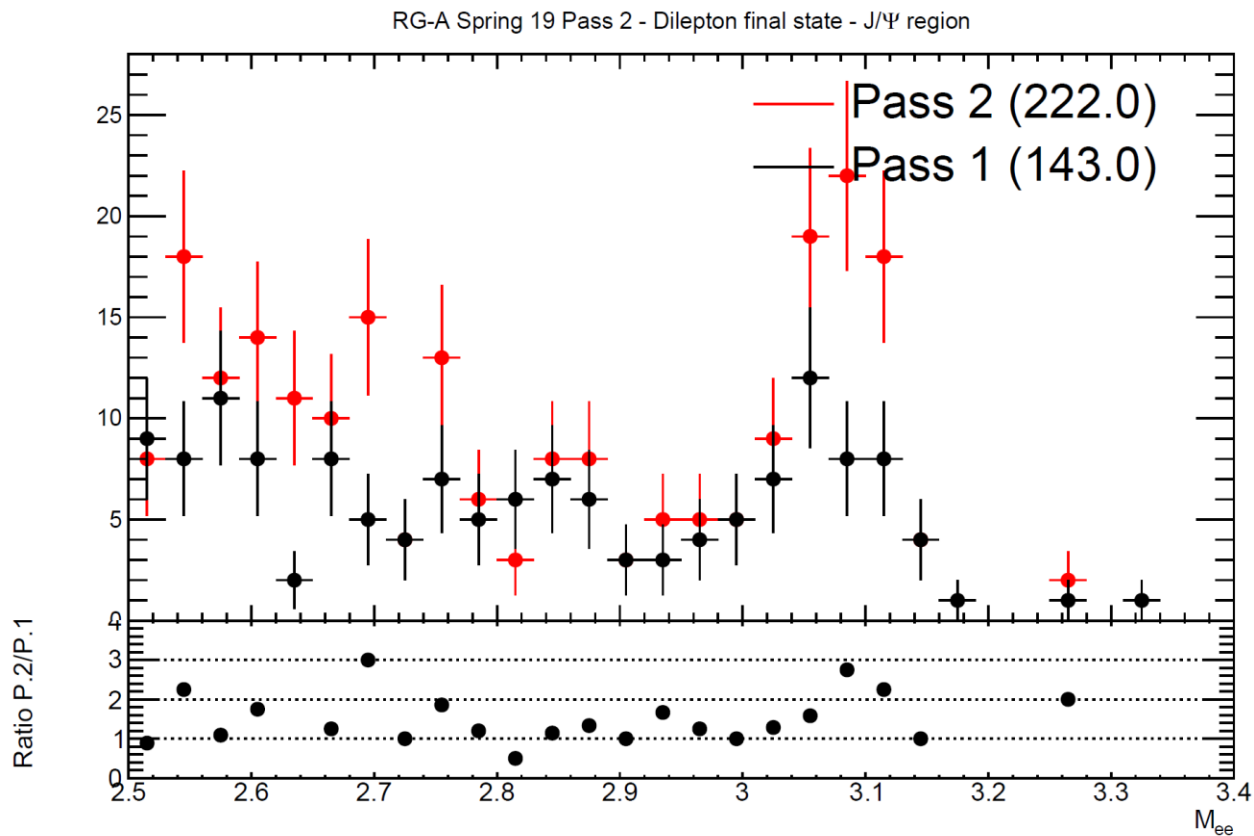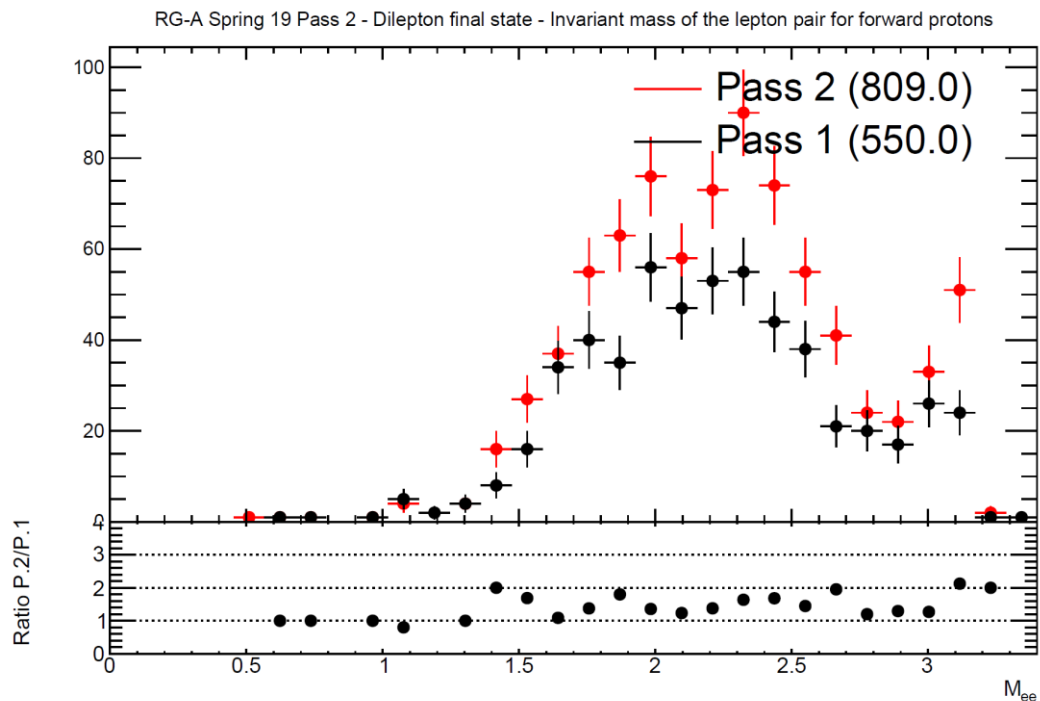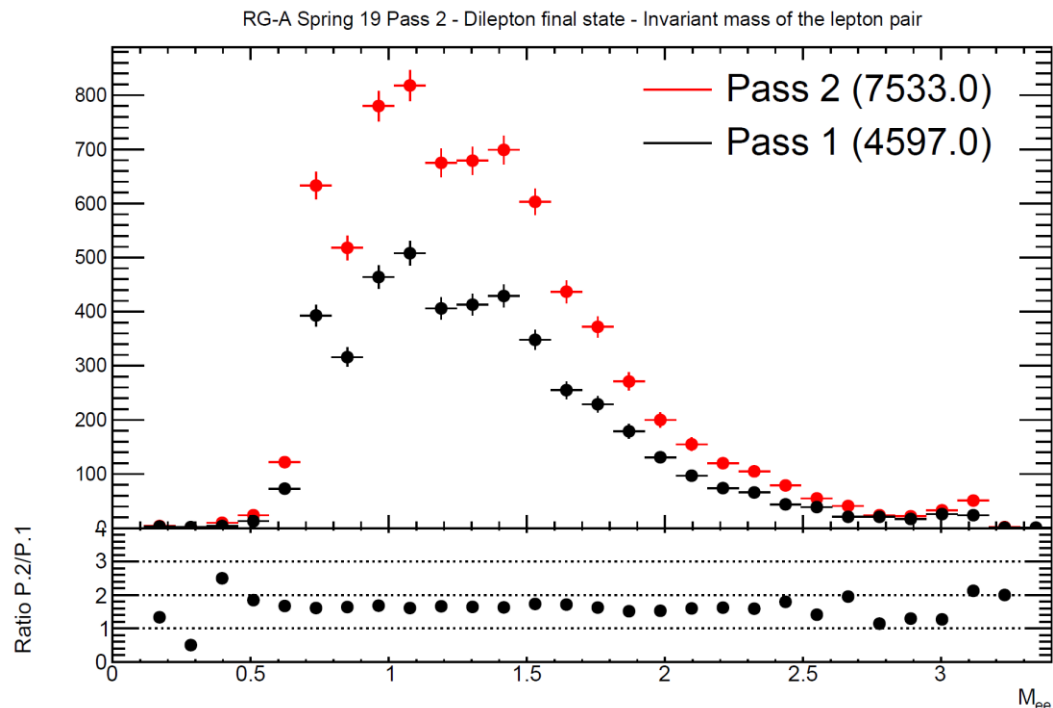
RGA Spring 2019 pass 2: J/Psi TCS train

- Based on all runs available in both Pass 1 and Pass 2 on the 5th of July 2023 at 9am (52 runs out of 121).
- Event topology: exactly one electron, exactly one positron, exactly one proton, anything else
- Lepton momenta > 1.7 GeV,   Sampling Fraction > 0.15   Lepton AI PID score > 0.05 (trained on pass1 simulation)
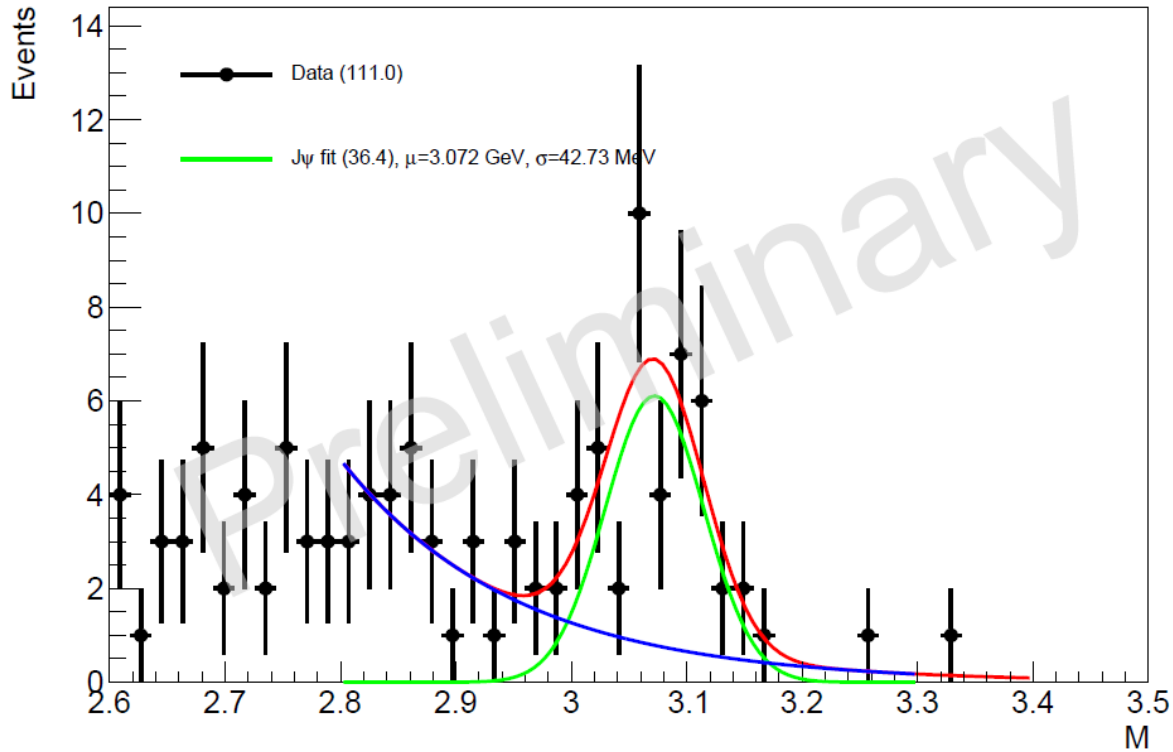- Exclusivity cuts: $|MM^2|<0.4$ GeV^2 and $|Q^2|<0.1$ GeV^2

Proton kinematics in ee events

RG-A Spring 19 Pass 2 - Dilepton final state - Polar angle proton

Pass 2 (7512.0)
Pass 1 (4582.0)

θ_{Proton}

Ratio P.2/P.1

RG-A Spring 19 Pass 2 - Dilepton final state - Momentum proton

Pass 2 (7509.0)
Pass 1 (4579.0)

P_{Proton}

Ratio P.2/P.1

Invariant mass spectra

More on J/Psi

Pass 1
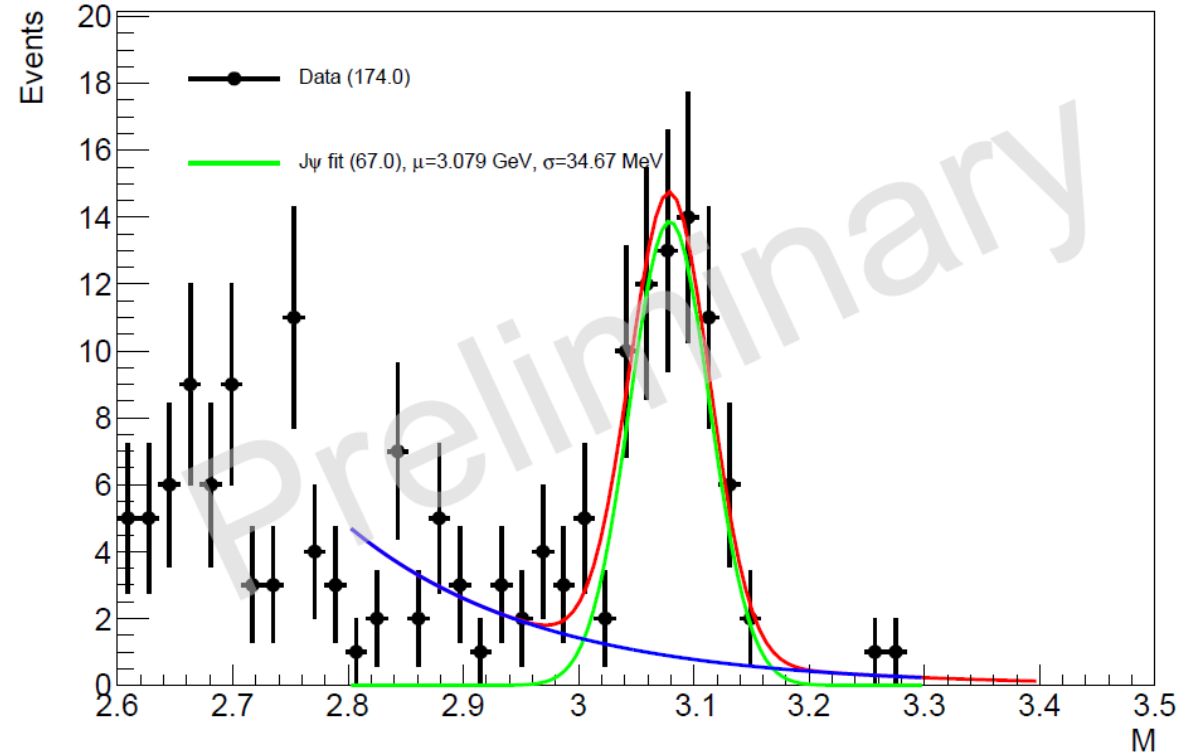
Pass 2

Plots done with few additional cleaning cuts (SF, proton angle,…)

Increase of ee events per run

RG-A Spring 19 Pass 2 - Dilepton final state - run