comparison

Cuts

Event cuts:

- Abs(vz)<70cm
- Vr<2cm

Track cuts:

- dca<3cm
- nHitsFit>15
- ratio>0.52
 - Only in Eddie's code, not Zuowen's

Track cuts (cont.):

- Abs(eta)<1
- |P|<2.8GeV
- 0.4<Pt<2.0GeV

Proton PID:

- nSigmadEdx<2.0
- 0.8<Mass^2<1.0 GeV^2

Official bad_run list used for Eddie's, Zuowen has his own bad_run list based off different QA

Full EP Resolution

Event Plane Calculation The Event Plane was measured by the innermost 8 sectors of the Event Plane • Detector (EPD) based on number of Minimally Ionizing Particles (nMIP) Event plane was recentered and flattened in the standard way (flattened to 20th • Fourier coefficient) At 19.6 GeV, the v_1 of the MIP signal changes sign at high n ٠ V1,raw Ś -0.005 -0.005 -0.01-0.01-0.015 -0.015 -0.02 -0.02 -0.025 -0.025 -0.03 -0.03 To account for this, the EPD signal was weighted by the raw v₁ measurement $\vec{Q} = \hat{x} \sum_{i \in tile} w_i \cos \phi_i + \hat{y} \sum_{i \in tile} w_i \sin \phi_i$ $w_i = w(nMIP) * v_{1,raw}(\eta)$ This allowed us to significantly increase our resolution of the v₁ signal • Zuowen uses same technique, but the weights are based on a 5th order poly • fit of the v1 raw





Supported in part by the



v1

