EVD Analysis Tool

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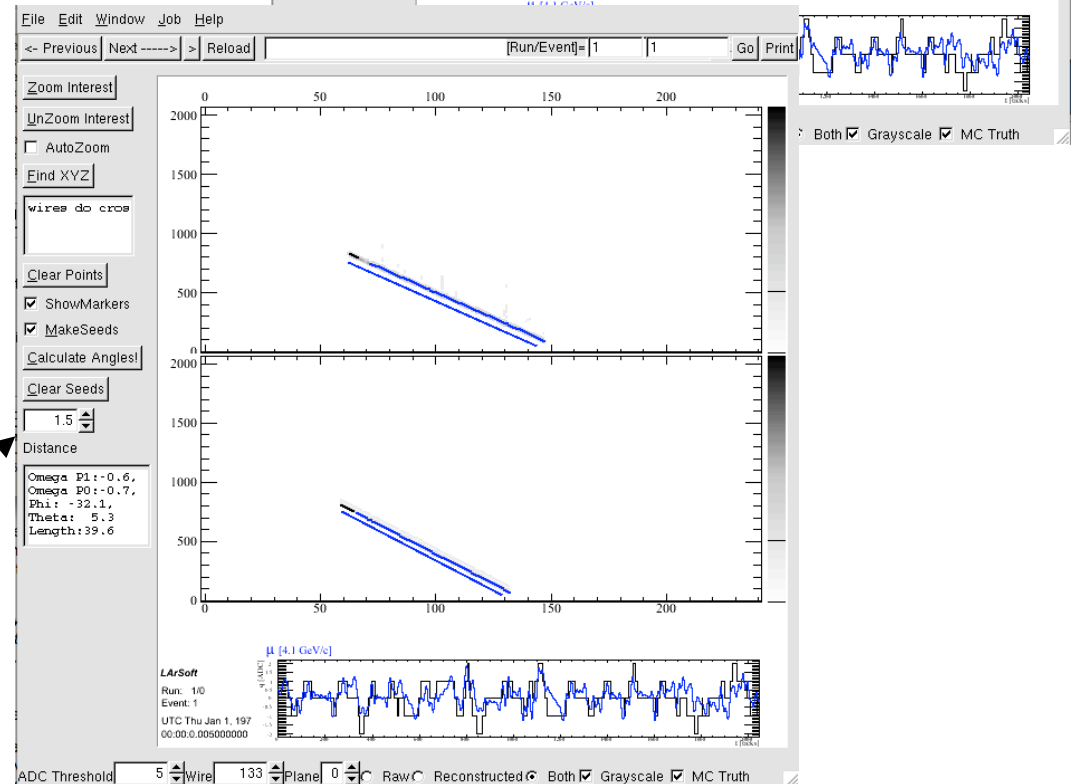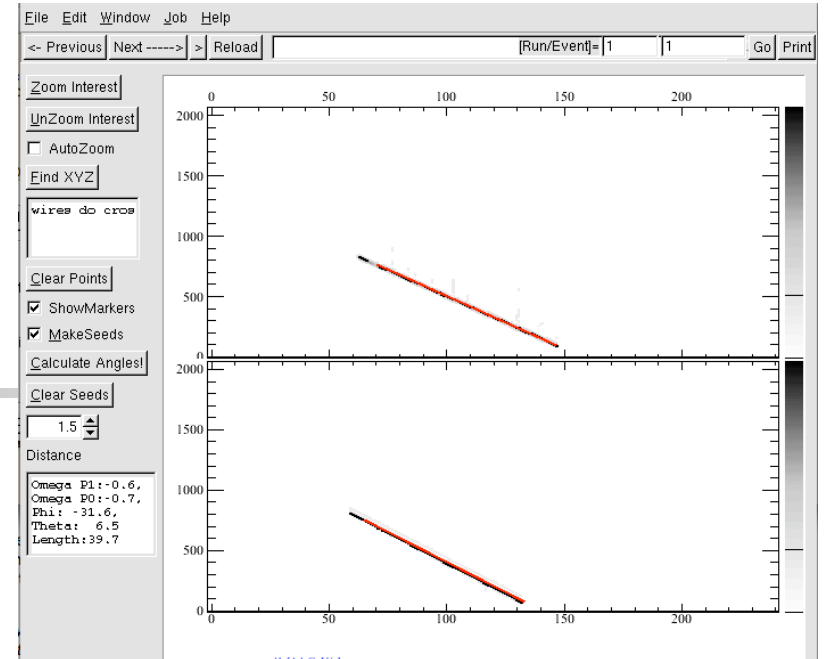MicroBooNE Hand Scan Meeting

07/27/12

Goal

Create hand scan tool where evd users can select hits in a cluster (add/remove individual hits), run reconstruction and calorimetry algorithms on clusters, look at calorimetry/PID

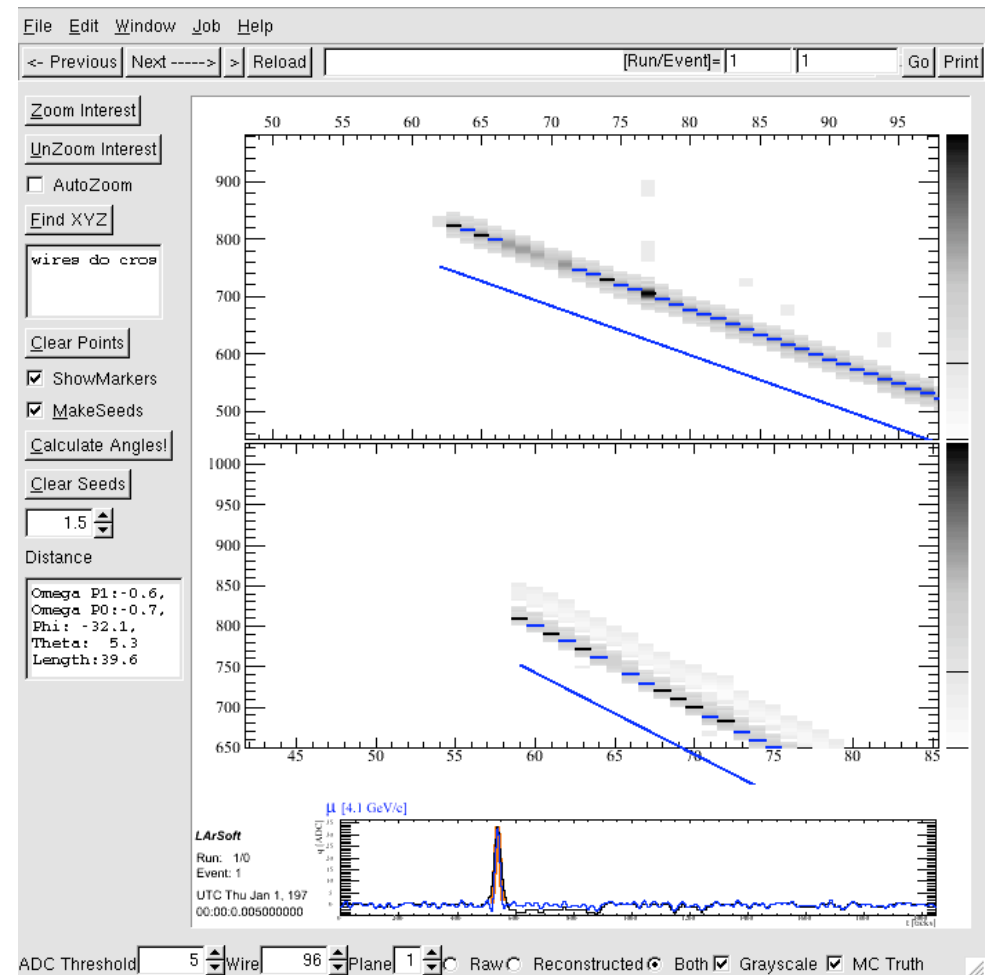Everything will be done in the event display!

Hit Selection

- Draw lines over particle tracks in evd

- Evd will select hits within a 1.5 cm radius of line, selected hits are blue

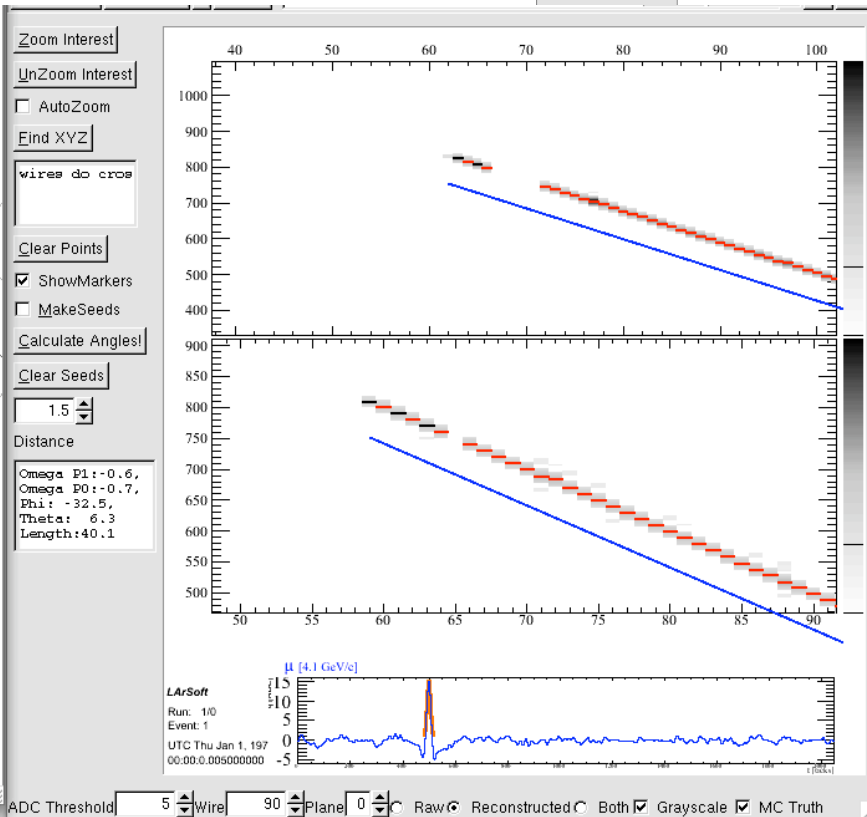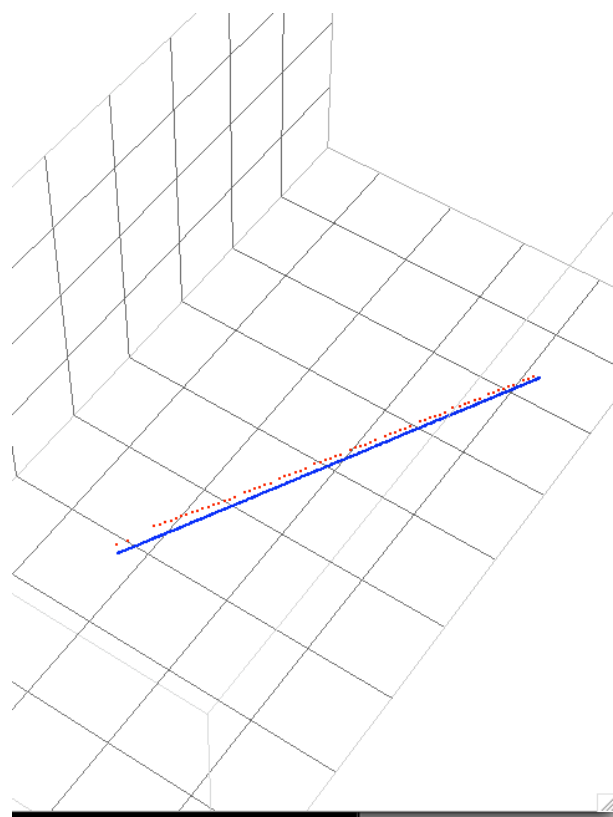- Radius around line is an option set by user
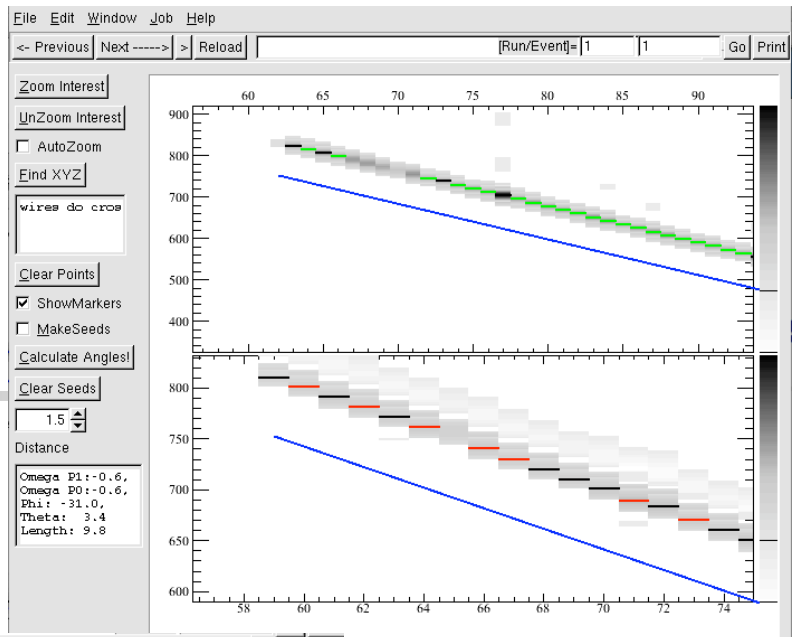
Hit Selection (2)

- Shift+click to add or remove hits from the cluster

Reconstruction

- Clicking "Reload" button will pass selected hits to clustering producer

- Can pass these clusters to other reconstruction algorithms eg track3Dreco

Current Status

- Evd analysis tool mostly works, still debugging a few things
    - Will likely check it in early next week
- Evd will create clusters, all other reconstruction algorithms should work as is
    - Change fcl parameter so that use evd clusters

Next Steps

- Test in MicroBooNE geometry
- Test with other reconstruction algorithms (ie seeds)
- Mitch added calorimetry display to evd, should be checked in soon
- Create multiple tracks per event and save reconstruction to event record (shouldn't matter for hand scan)
- Any other ideas? Let me know!