

Track Finder Visualization

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- Goal:
 - Allow user to “step through” algorithm, displaying info at each step
 - Motivation: Allows us to easily see how changes in the algorithm affect various aspects of it.
- Accomplishments:
 - Some buttons
 - Residual View
- To do next

Goal

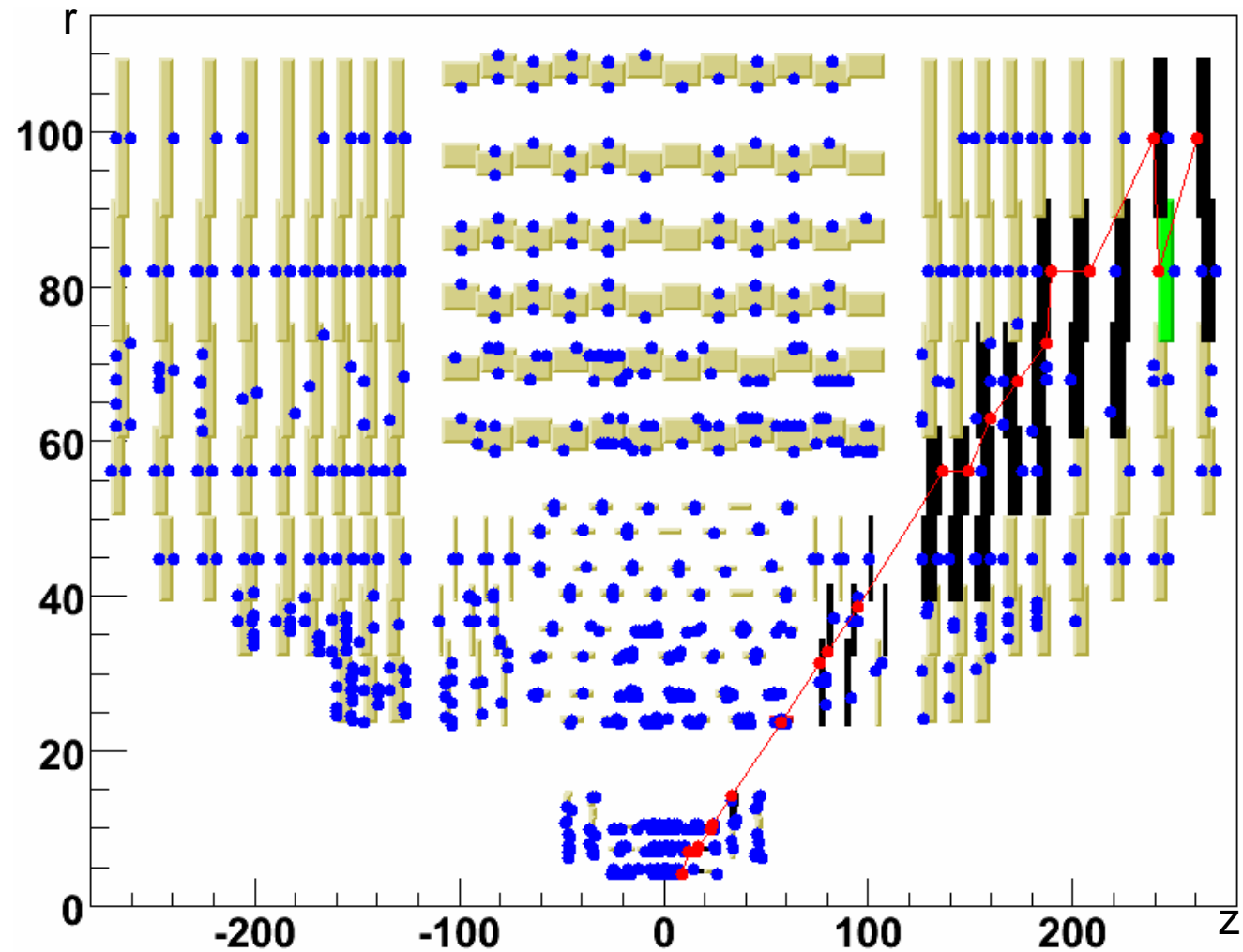


- Allow user to “step through” algorithm.
- Motivation: Allows us to easily see how changes in algorithm affect certain aspects of it.

Display



- Units: cm
- Road is black rings.
- Seed rings are green/red.
- Track is red.
- Hits are blue.



Accomplishments

Stepping through algorithm



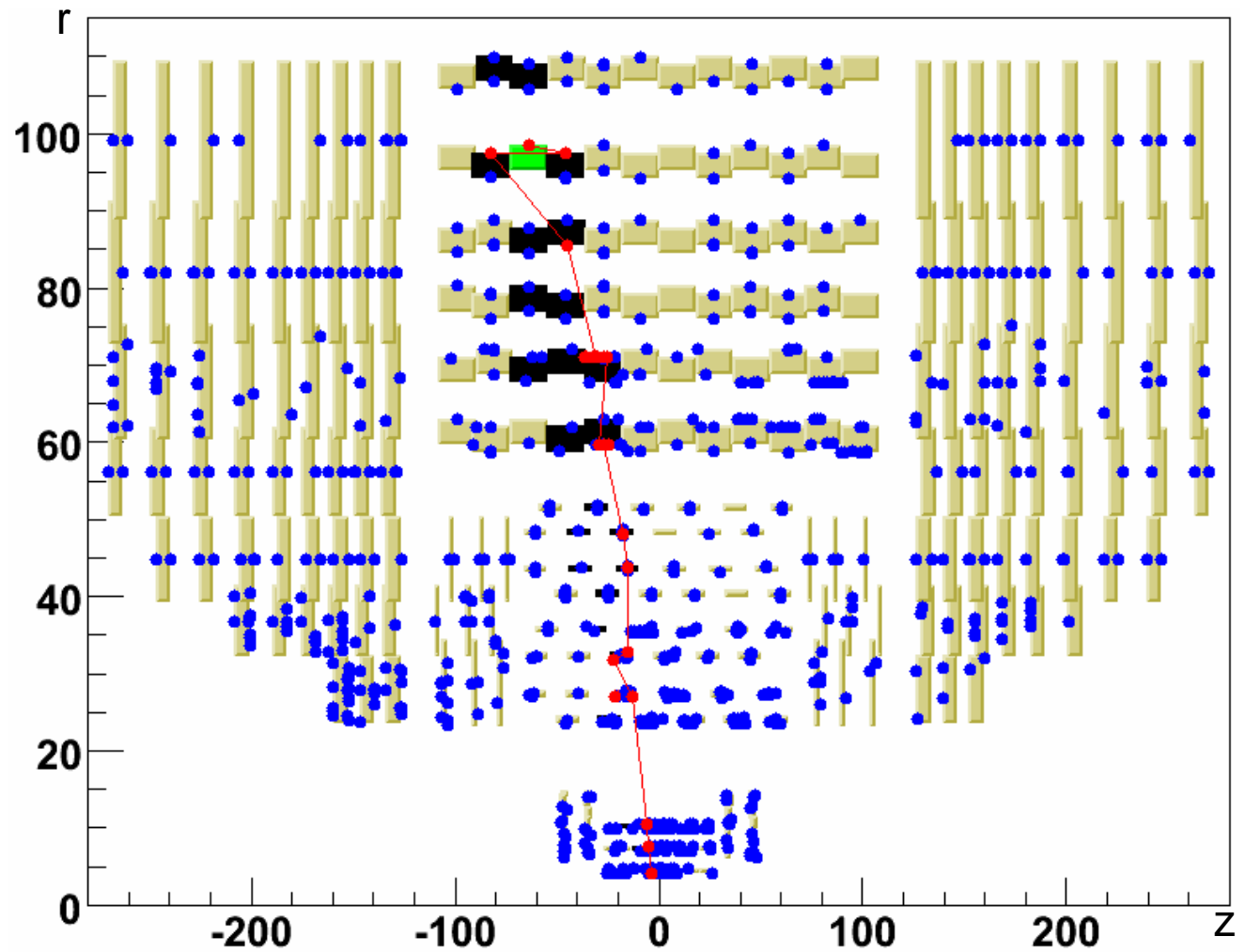
Stops

- Never
- Roads
- Tracks
- Both

Direction

- Forwards
- Backwards
- Jump

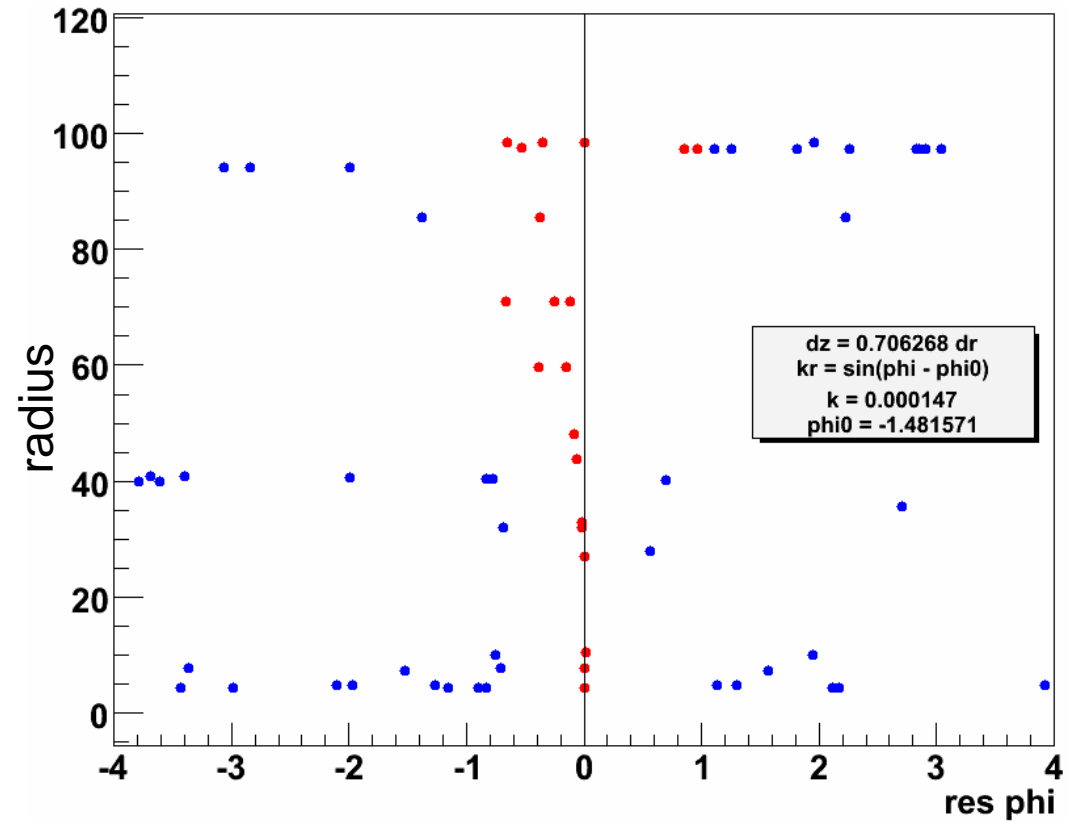
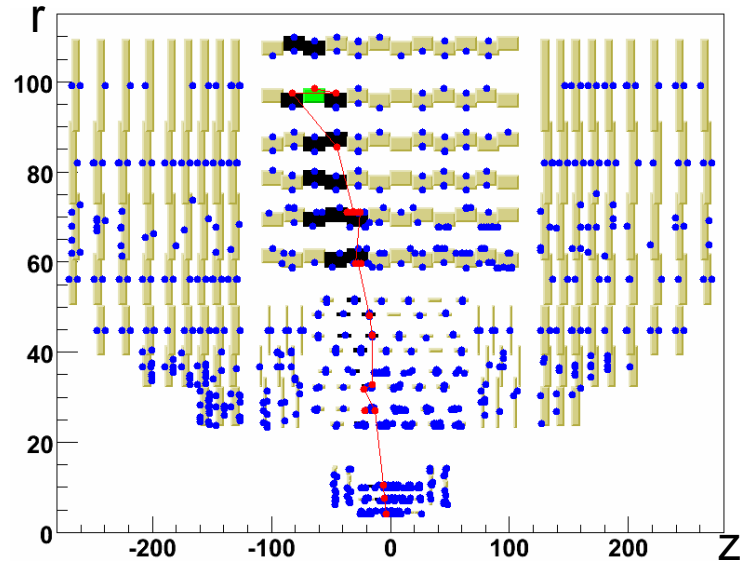
Road/Track:



Accomplishments



Displaying info: Residual view, r-phi

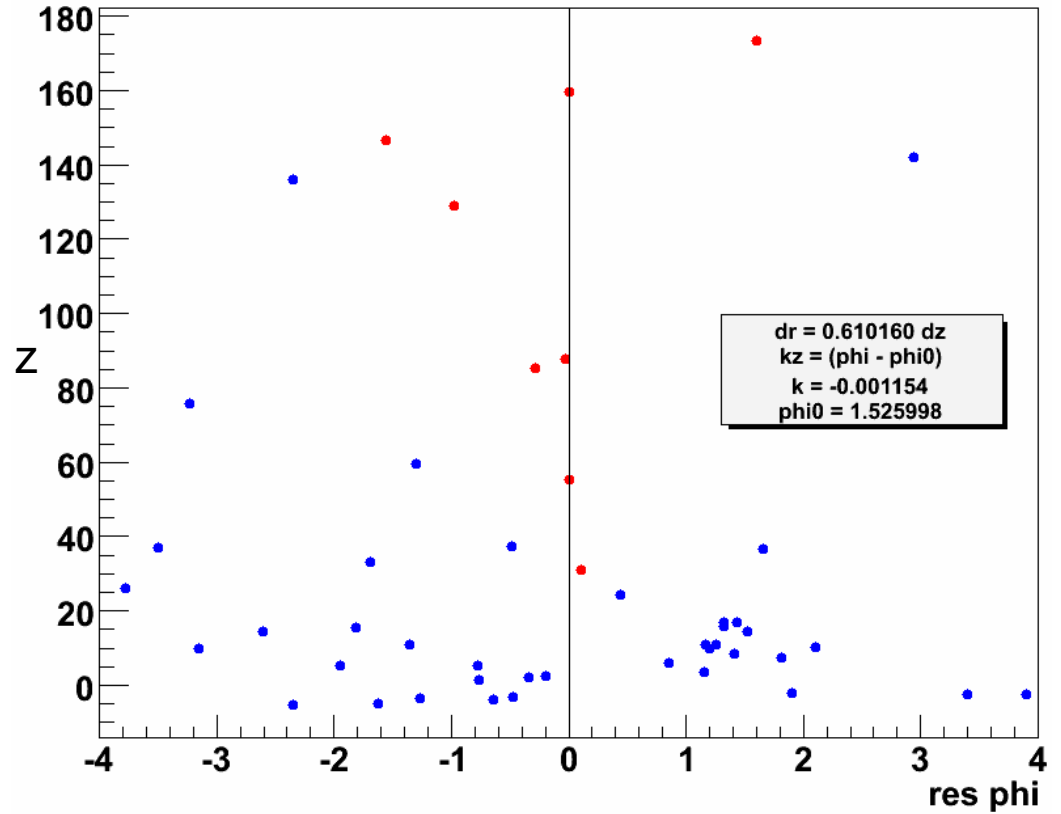
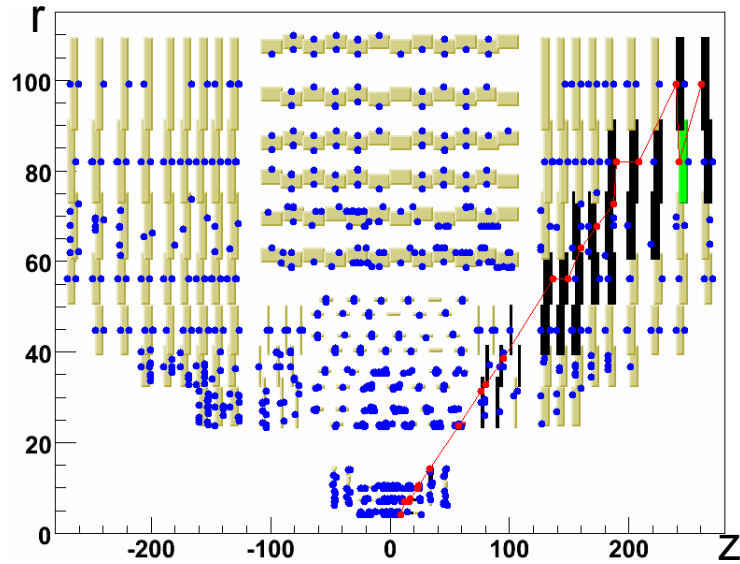


- Radius vs. res(phi) b/c track's seed rings are barrels.
- No errors displayed yet.

Accomplishments



Displaying info: Residual view, z-phi



To Do Next



- Add errors to residual view.
 - How are errors stored?
 - More info about detector geometry:
 - sigma in pitch direction
 - stereo angles
- Allow user to step through merging process.
- Start running fitting/further pattern rec.