Track Finder Visualization

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Improvements:

- 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.
- Some buttons
- Residual View
- To do next
Improvements

Overview

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

Stepping through algorithm
Improvements

Displaying info: Residual view, r-phi

- Radius vs. res(\phi) b/c track’s seed rings are barrels.
- No errors displayed yet.
Improvements
Displaying info: Residual view, z-phi

\[ dr = 0.610160 \ dz \]
\[ kz = (\phi - \phi_0) \]
\[ k = -0.001154 \]
\[ \phi_0 = 1.525998 \]
Improvements

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 next stage.