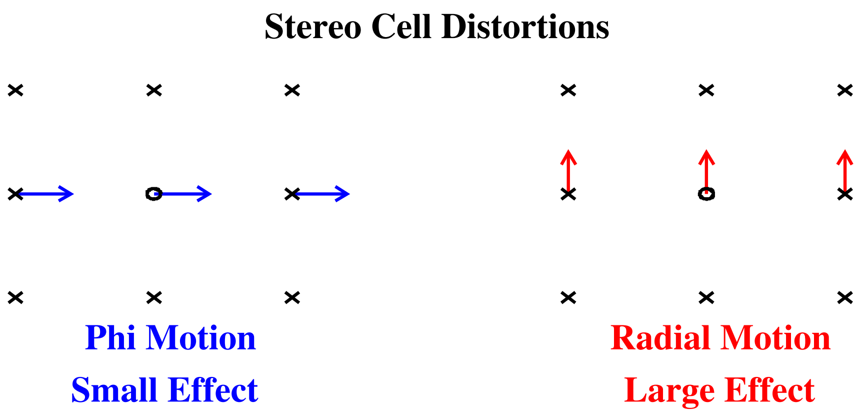
Stereo Layers: Distortion Effects

CLEO DR2 has isolated stereo layers:

- Wires move in R and ϕ relative to field layers
- Hard to correct completely; degrades resolution

Motions as Z varies:



New Chamber Designs:

- All use stereo superlayers (fixes most problems)
- Effects only at superlayer edge; only one boundary

Different superlayer edge philosophies

- BaBar has extra field wires to isolate
- Belle smoothes transition with filed-layer angle
- CLEOIII has smaller stereo angle (effect $\sim \phi^2$)