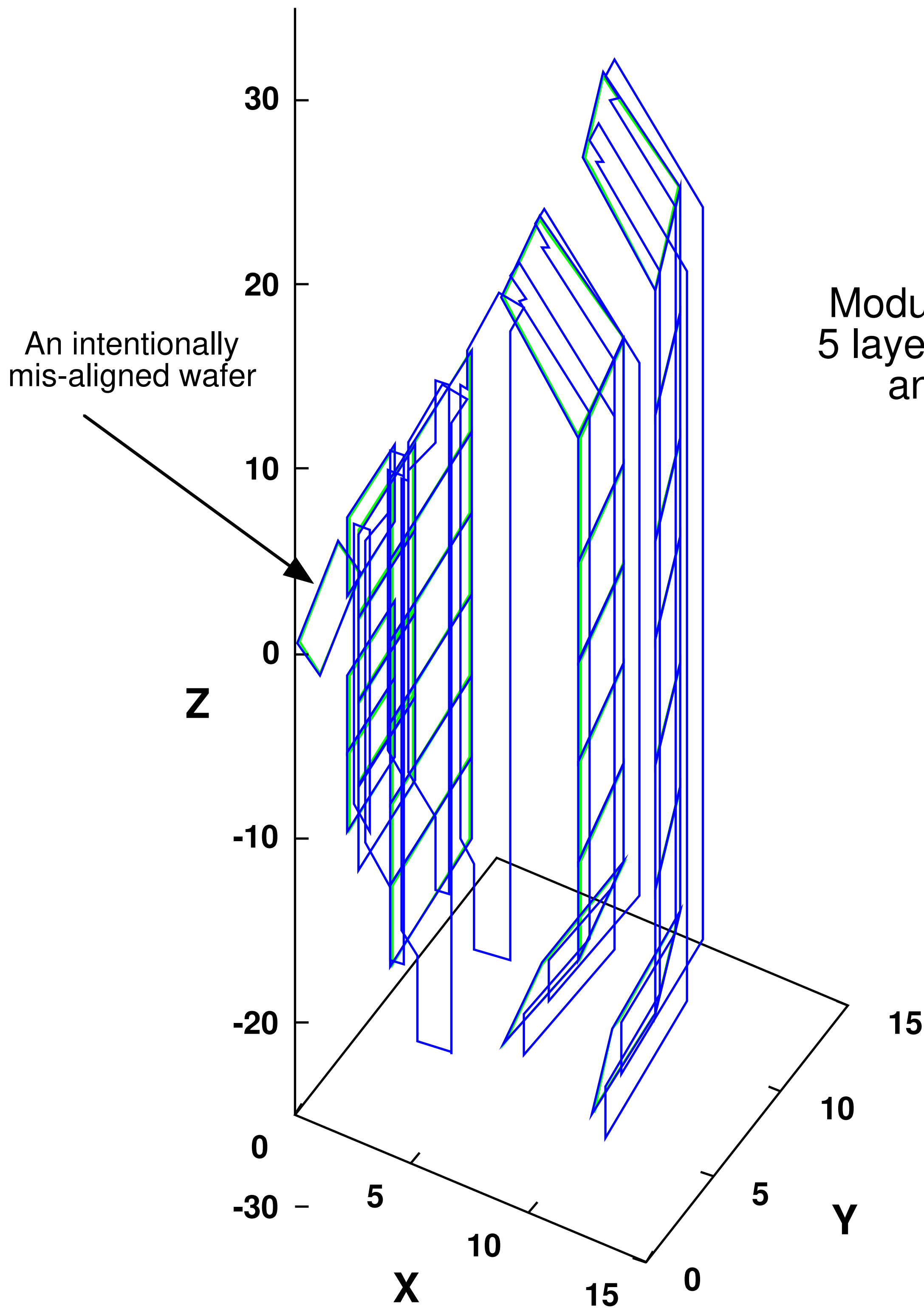
DetectorModel

- Reco framework for detector description
- Base classes implement general features
  - Organization and Hierarchy
  - Track navigation
  - Alignment application
  - Material effects
- Every Subsystem has their specific model
  - Svt Wafers, Dch Endplates, ... are DetModel subclasses
- Uses the Conditions Database
  - Geometry, Alignment, and Material constants
  - Geometry + Material data are also used by Simulation
- Used inside many reco algorithms
  - Kalman tracking, Svt hit reco + PatRec, Dch dE/dX, Dirc track match, Emc track match, Ifr swimming
- All features implemented and in use currently
- Recently, performance has been improved
  - Ifr, Emc model improvement
  - Navigation tool improvement
  - Now acounts for 10 ->20% of reco cpu (guessimate)
- Track navigation < ~30 MeV needs work
  - Some track intersections are lost
  - Fix requires a rewrite of a low-level class: after this run

Svt Model



Module 1 in all
5 layers, wafers
and ribs

Svt Model and Tracking