Spectrometer (HMS/SOS/HRS/SHMS) Models.

Magnetic elements

COSY transformations for each magnet.

Real apertures

collimator.
front/mid/back of each magnet.
vacuum pipes.

Fiducial cuts for relevant detectors (depends on trigger, analysis).

Uses sequential transformations for magnetic elements, continuous drift for field free regions.

Important for modeling decay, eloss, mult. scattering, (collimator punch-through).

Reconstruct track.

Record position at each drift chamber plane (w/resolution)
Reconstruct tracking using (Hall C-style) tracking fitting.