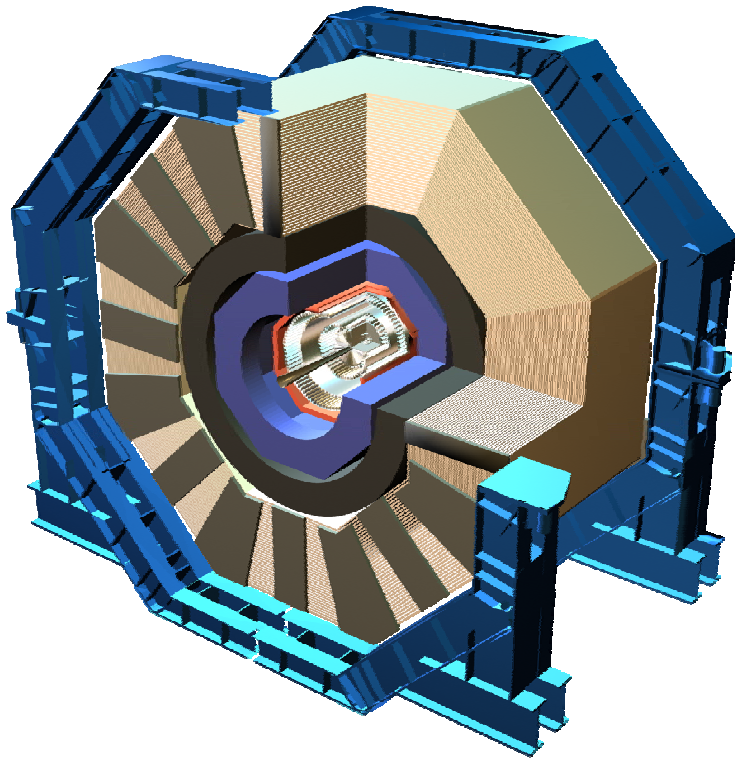
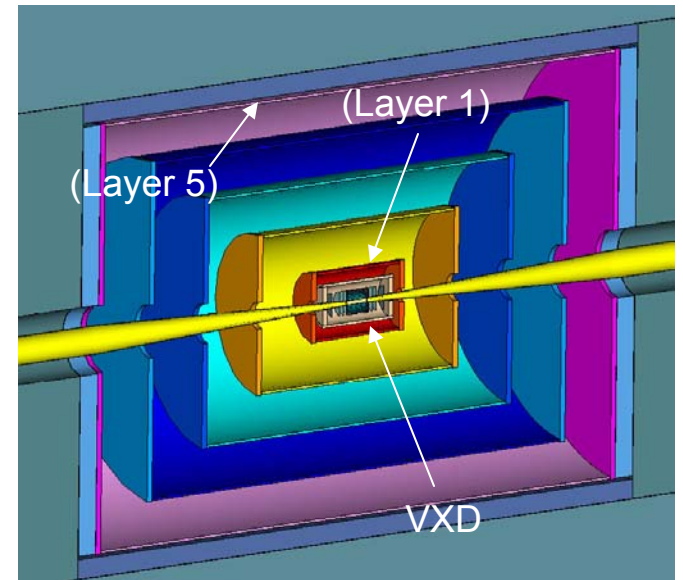


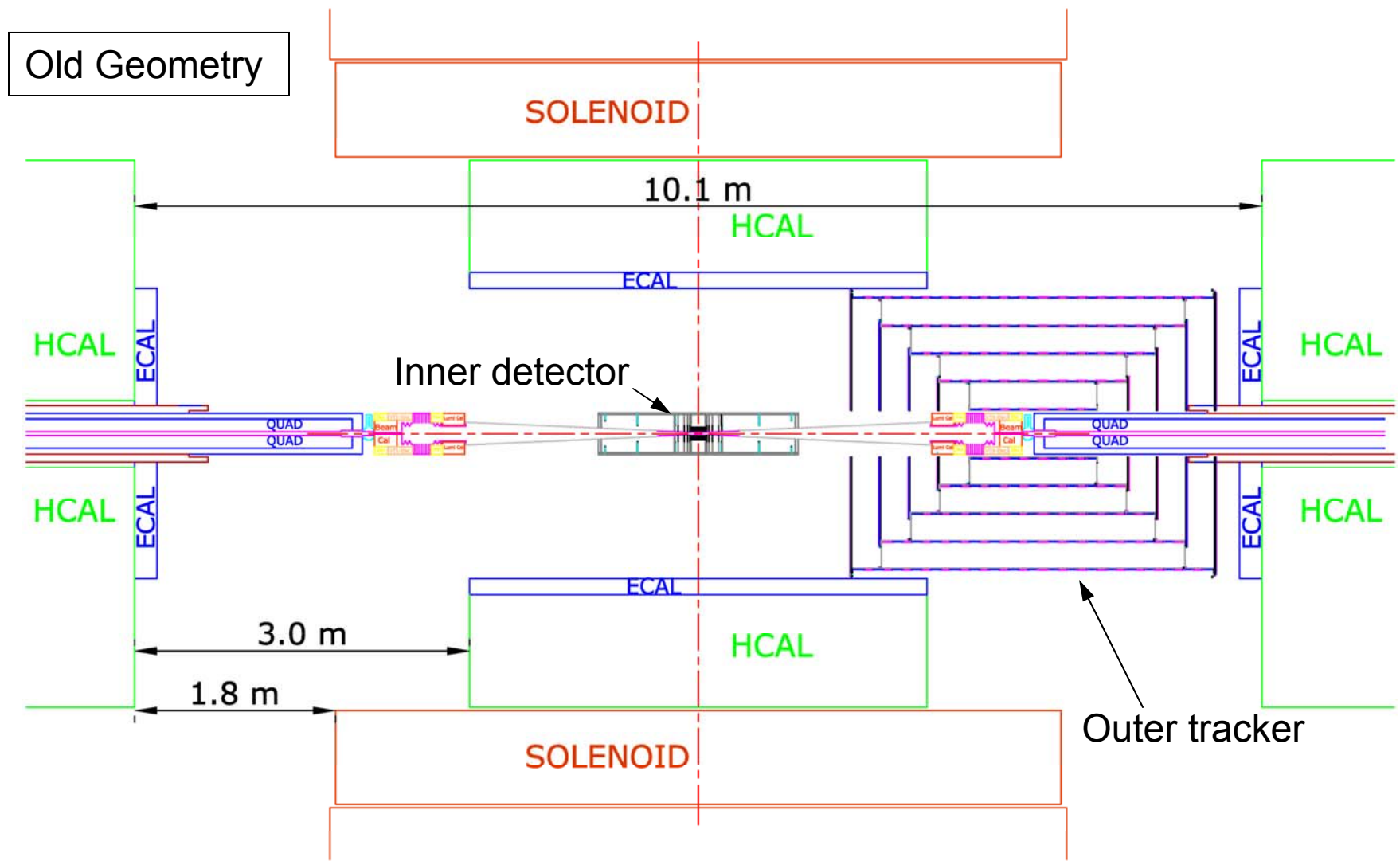
SiD Tracking: Geometry Update



Bill Cooper
Fermilab



SiD • Detector Open / Full Access to Inner Detector



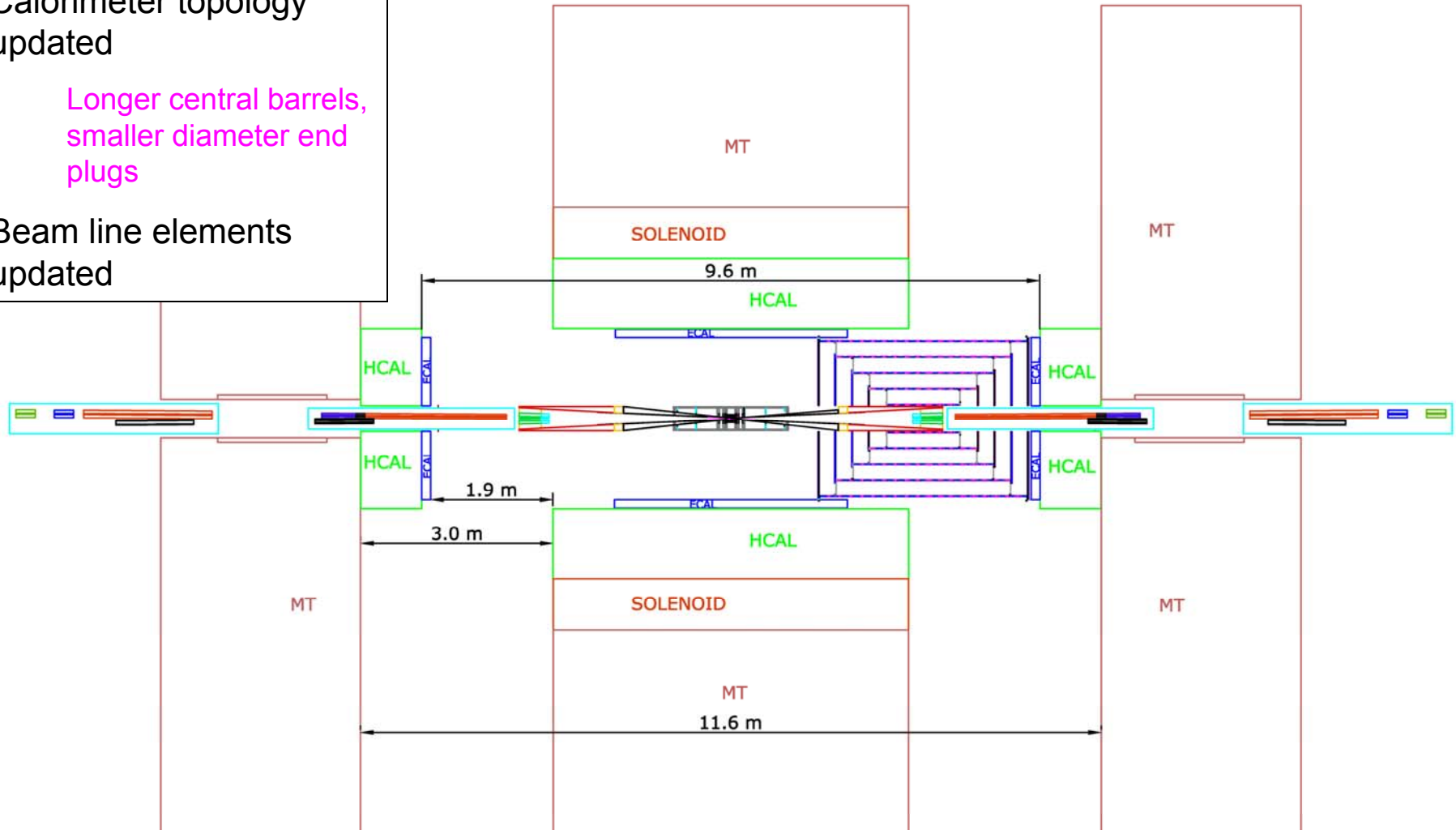
SiD • Detector Open / Full Access to Inner Detector

New Geometry

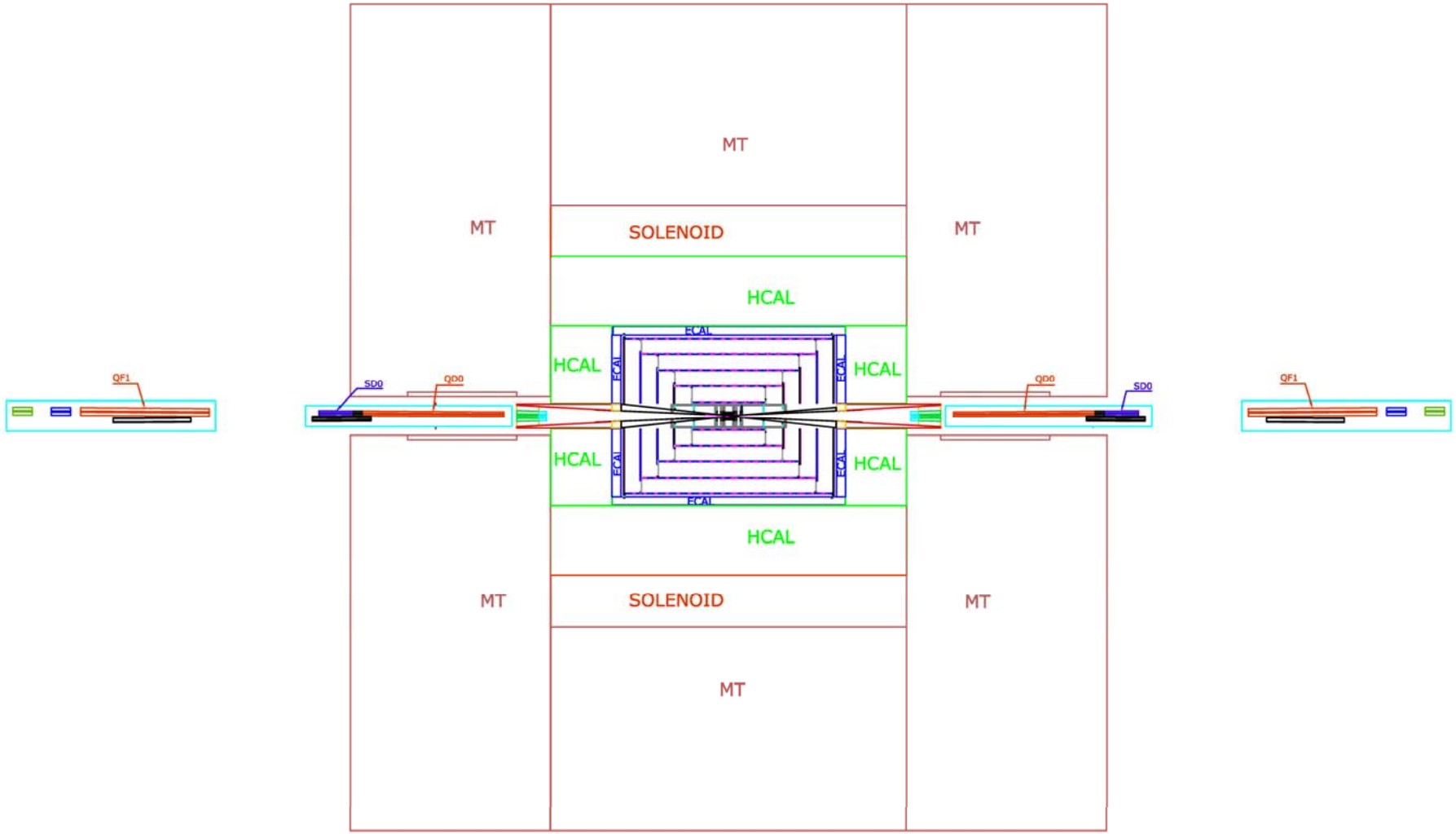
Calorimeter topology updated

Longer central barrels, smaller diameter end plugs

Beam line elements updated



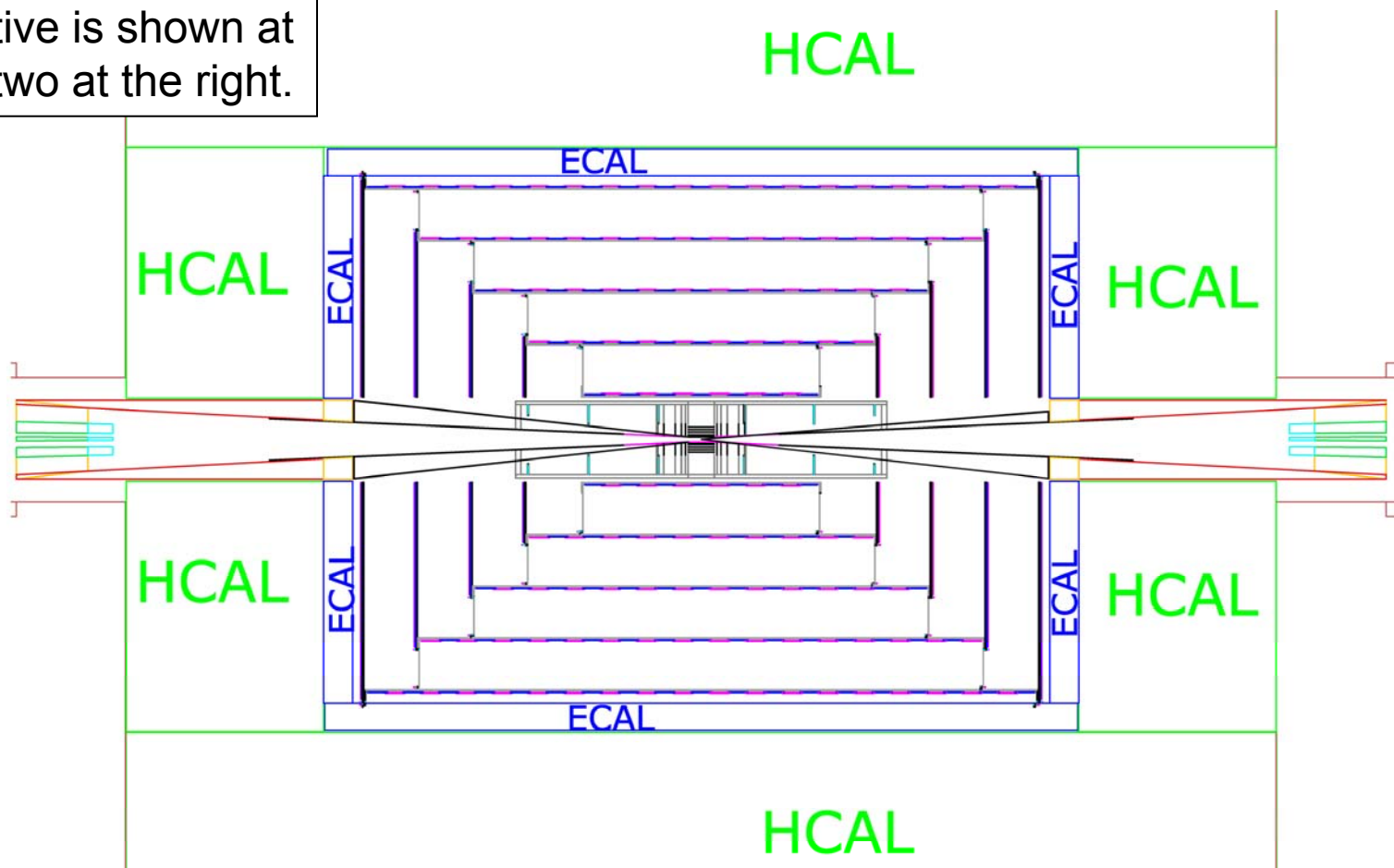
Detector Closed



Beam Pipe Options

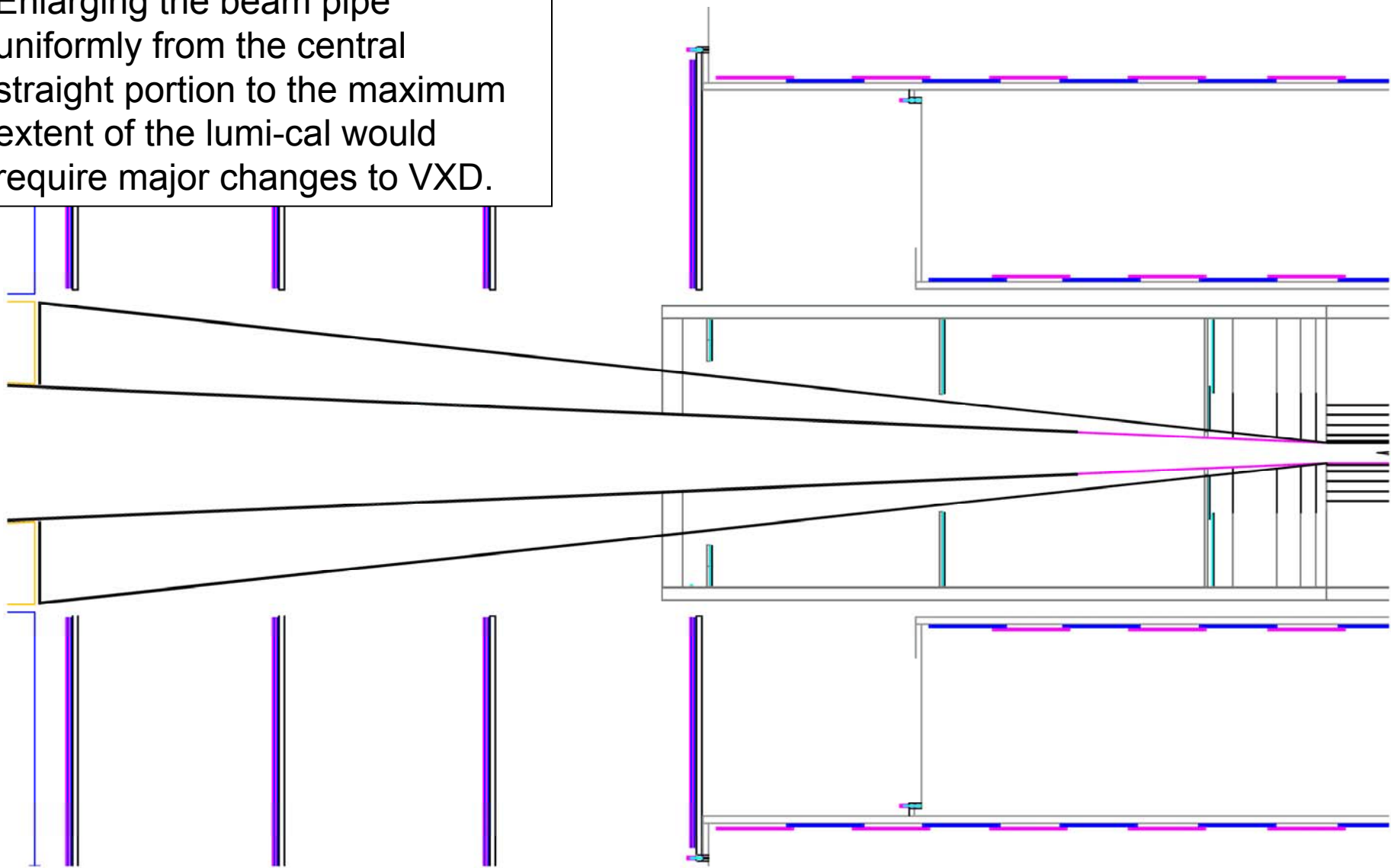
“Original” beam pipe is shown in magenta (Be) and black (SS).

One alternative is shown at the left and two at the right.



Beam Pipe Options

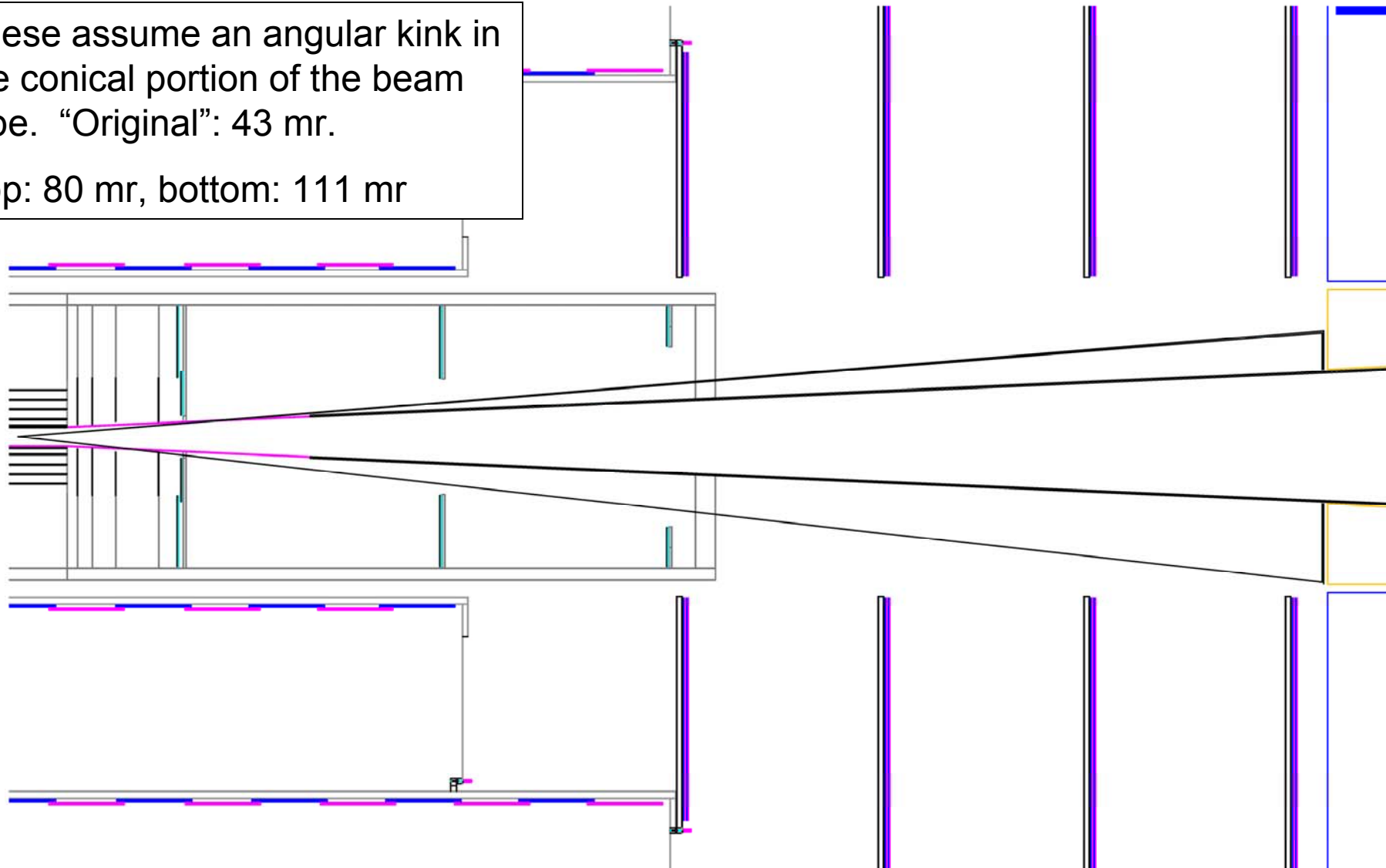
Enlarging the beam pipe uniformly from the central straight portion to the maximum extent of the lumi-cal would require major changes to VXD.



Beam Pipe Options

These assume an angular kink in the conical portion of the beam pipe. "Original": 43 mr.

Top: 80 mr, bottom: 111 mr



Lumi-cal / Beam-cal Region

