



GEn polarimeter experiment engineering & design status

Robin Wines

Components of GEn polarimeter

GEn polarimeter experiment requires

- SBS
- BB
- CE Polarimeter
- PR Polarimeter
- HCAL and CDET

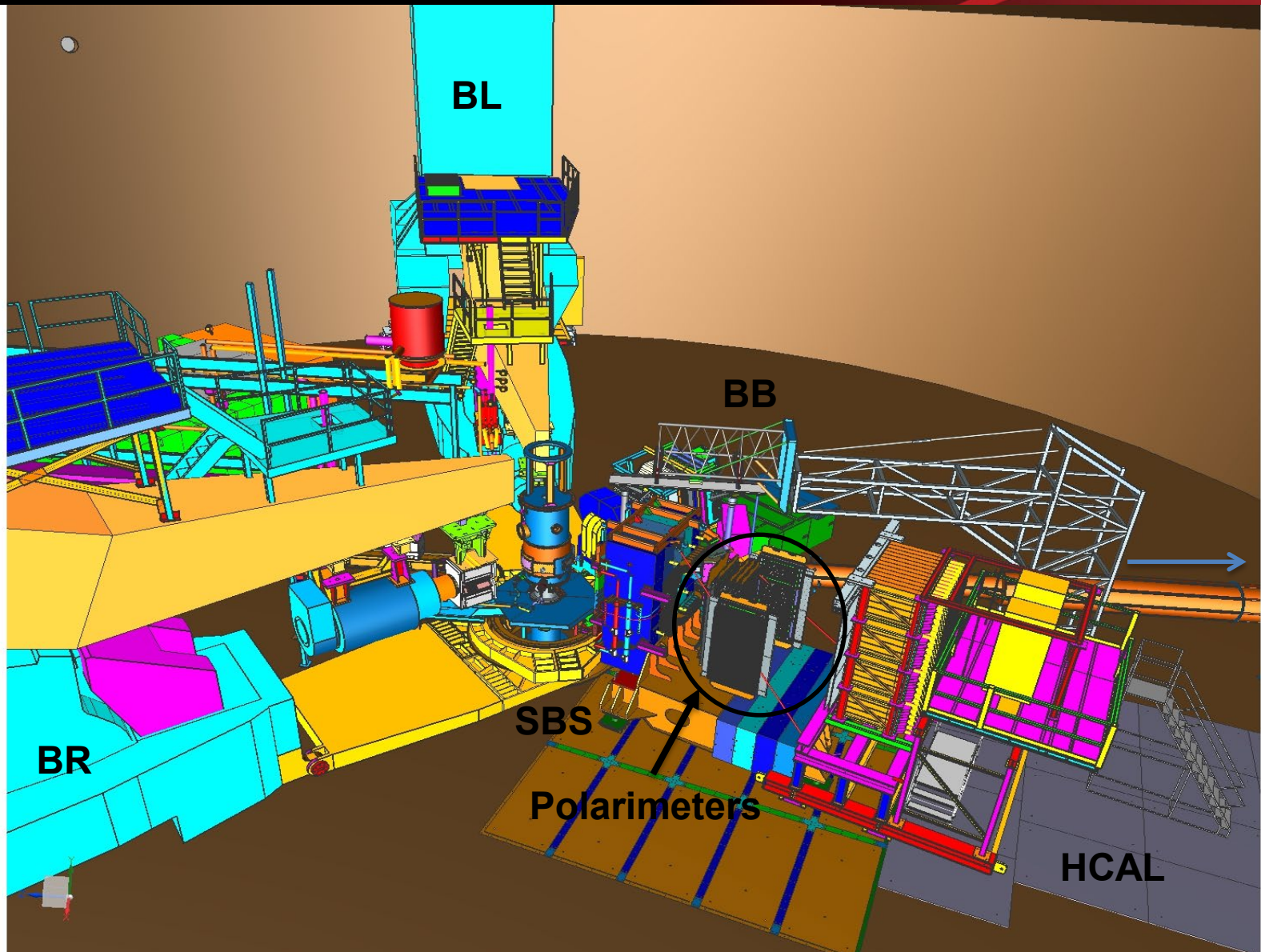
G_E^m/G_M^m **17004** **Hydrogen/Deuterium**

Experimental Points

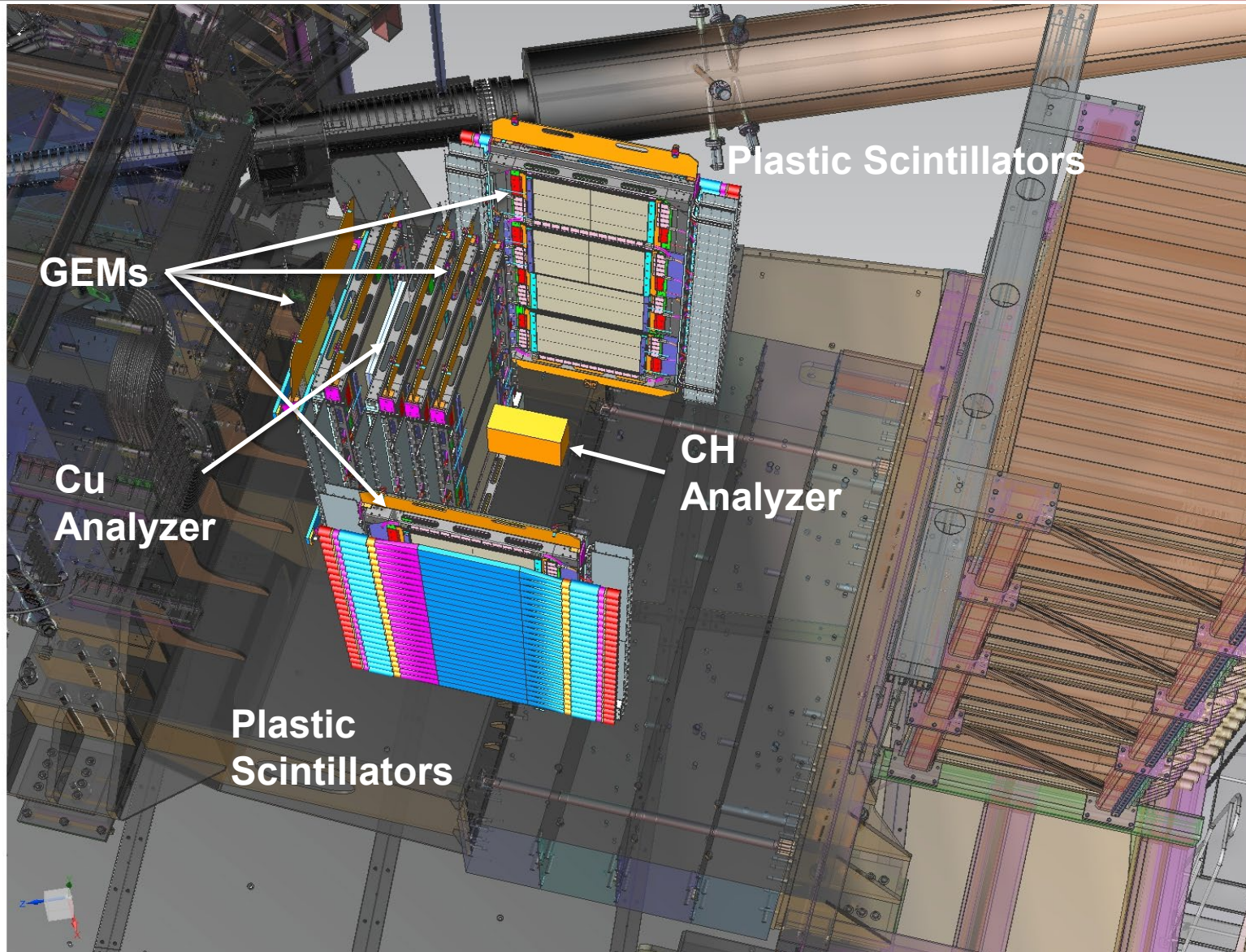
10cm Hydrogen/Deuterium

Q^2 [GeV ²]	θ_{BB} [deg]	d_{BB} [m]	θ_{48D48} [deg]	d_{48D48} [m]	d_{HCAL} [m]	Beam Line Configuration #
4.5	41.9	1.55	24.7	2.25	8.5	3

GEn polarimeter Layout



GEn polarimeter Equipment



GEn polarimeter Equipment

CE Polarimeter requires

- Main frame support with alignment and motion capabilities
- Cu Analyzer and frame
- 4 GEM subframes and mounts
- CH Analyzer and frame

PR Polarimeters require

- 2 main frames with supports and alignment
 - 2 GEM subframes and mounts
 - 2 Plastic Scintillator mount sets
 - 2 rail sets
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- Requires 2nd GEM electronics hut to be mounted on side of SBS counterweight structure
 - Requires shielding between BB & SBS for GEMs
 - Requires 8mw engineering and 19mw design.
 - STATUS: Incorporated detectors into layout. Design and Engineering to be scheduled.