

Barrel HCal TDR Planning --Timeline

Stefan Bathe, Baruch/CUNY

Megan Connors, GSU

Barrel HCal TDR planning

- Detector design
 - Overview--June
 - Detector requirements
 - Radiation requirements
 - Test beam—Plan by Fall/sPHENIX results
- Performance
 - Single particle studies w/ and w/o other material--end of summer
 - Clusterization (merging)—June (Derek, Peter Steinberg, since related to backwards EMCal)
 - Full event reconstruction—Fall
 - Jet performance?—Fall
- Mechanics
 - Internal module structure
 - Stacking
 - Seismic and load deformation studies
 - Scintillator performance
- Read-out (same as LFHCal, should be common section)
 - SiPM boards--August
 - Long Micro-Coax cables--Fall
 - FEB--October
- Cooling (no cooling in sPHENIX; same?)
 - Heat load simulations
 - Colling system not needed
- Monitoring system
 - LED system--August
 - Temperature monitoring--August
- Integration (common section?)

“from previous work”

”ready to write up“

”partially ready to write up“

”lots to do“