Choosing SiD's Global Parameters



June 23, 2008 John Jaros

Outstanding Issues

- Can some of Martys's cost caveats be removed?
- Do we stretch SiD?
 Marcel's studies of resolution vs z and segmentation for 100 and 250 GeV jets should provide the needed input.
- Should we sit "beyond the cost v performance" knee? Re-evaluate cost v performance with SiD/SiDish differences "accounted for".
- Physics with higher energy jets See following slides from Tom Rizzo. No clear physics case, yet, for high resolution beyond E~ 250 Gev.







Q for subsystems/engineering

- Are there concerns about going to "SiD stretch" (z=2.05 vs 1.7 m?) If so, we should resolve them soon.
- Given preferred global dimensions, when can engineering come back with subsystem "envelopes"?
- Are subsystems ready to proceed with subsystem optimization and specification?
 Due date: SiD Colorado Workshop!