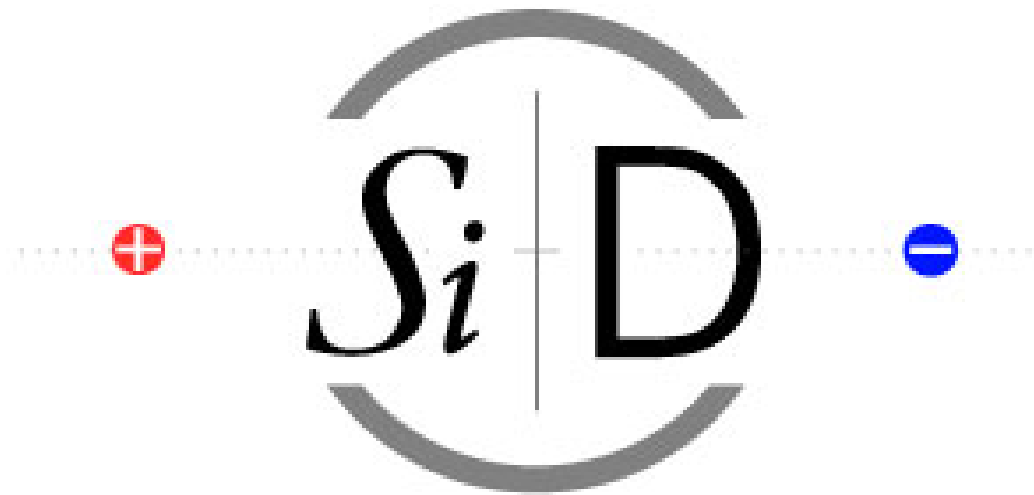


SiD HCAL Review Process



SiD Collaboration Phone Meeting
December 6, 2008
John Jaros

Technology Selection Needed for some Subsystems

<u>Date</u>	<u>Milestone</u>
10/1/08	Submit LOI
9/1/08	Begin Final Edit of LOI; complete authorlist
8/1/08	Complete LOI Draft Collaboration Review and Comment
6/1/08	GEANT4 Description Ready Performance Studies Ready Benchmarking Studies Ready
5/08	Freeze Detector Design SubSystems Fully Specified Subsystem Technologies/Alternates Selected Conceptual Engineering Designs Ready
3/08	Freeze Global Parameters First Pass Detector Design
2/08	First Pass Global Parameters
12/07	Subgroup Plans Defined Milestones and Deliverables Manpower Resources Needed

Clear we need this for
HCAL and Muons.
Clear we don't for
Vtx and Beamcal.
Tracker and Ecal?

Technology Choice Issues

- **What criteria to consider?**

 - Demonstrated performance

 - Physics performance expected

 - Conceptual design in SiD. What would it look like, electronics, power, calibration, cooling and all?

 - Robustness, reliability, track record

 - Cost of integrated system

 - What information is lacking for a sound technology choice?

 - How do we get it?

- **Who does the homework?**

 - Relevant Subgroup

 - Technology proponents

- **Where is information presented and discussed?**

 - Subgroup Meetings

 - SiD Workshops

 - Technology Reviews

Proposed Decision Process

(at SiD Fermilab Meeting 10/22/07)

- **SiD Consensus (whenever possible)**
 - Discussion in Subgroups
 - Presentation of Conclusions at SiD Meetings
 - Feedback
 - Revised Conclusions
- **No SiD Consensus (only when necessary)**
 - Decide on strategy: Do we need to make a choice?
 - If so, Exec appoints and Charges Review Committee:
 - Chair and 2 members from SiD (no conflicts of interest)
 - 2 members with expertise from outside SiD
 - Report available to SiD Collaboration
 - Exec Decides with Report as Input

HCAL Decision Process

- **HCAL group has asked for an outside decision making process.**

After the partisans recuse themselves, nobody's left!
- **SiD Exec is proposing the following process:**

Establish a committee, chaired by Jim Brau, with membership from within SiD, exclusive of HCAL group.

Charge the committee with recommending a baseline technology for a PFA hcal, and alternate(s) as appropriate.

The committee should review progress and collect information at the RAL meeting, and conclude its work in time for a technology decision around the end of May 2008. Hcal Group should organize to provide the needed input.

The committee will deliver its report to the SiD Exec for a final decision. Report and decision rationale will be made available to all SiD.
- **Comments???**

Suggested Review Committee Meetings

We'll use the series of SiD Meetings throughout the next year for the technology choice reviews.

Jan 28-30	SLAC	Committee organizes.
April 14-16	RAL	First Round Review
June	???	Second Round Review Decision & Report