

Feedback from IDAG

H.Weerts
June 11, 2008
ECFA2008 meeting

All concepts (30 met with IDAG for ~30 minutes yesterday, Tuesday

From SiD: P.Burrows, M.Demarteau, N. Graf, H.Weerts

Plus J.Brau from Directorate

Started/asked for questions from SiD:

Q1: How important are cost ?

A1: providing no cost estimate will result in "no passing" grade. No clear further guidance was given. They said that would get back to us with some guidance. We also emphasized that there need to be some costing rules.

Q2: What does validation mean ? What is in it for SiD ?

A2: Obviously they have struggled and are still struggling with this. After some discussion it became clear that if you are validated as a concept you will be part of the documents that will be submitted in 2012. Non-validation means, you are not part of it. Validation is also required to be part of the work in next few years to create the concept specific interface between machine and concept.

After the common task group meeting today, I also assume it means that R&D needs of a concept are only taking into account and "defended" by RD is the concept is validated.

More broad: validation will be required to be part of experiments that RD will represent.

Q3: LOI time scale seems out of synch with TDP time scale i.e. why LOI now and not later.

A3: Through this question we actually got an answer to Q2 about what validation means.

Q4: What will interaction between SiD and IDAg between now and April 2009.

A4: There will be some "official" feedback from what IDAG heard at ECFA08 in written form.
There may another interaction at LCWS in Chicago, but not decided yet

Q5: Is submission of LOI simply a paper submission or coupled to presentations at a workshop or meeting ?

A5: Current thinking is to submit document, give IDAG time to read (~month) and then meet. At workshop or separately not clear yet.

Q1: Are there issues in the machine detector interface i.e. does SiD have input and is involved in machine issues effecting detector ?

A1: strong MDI group for that in SiD. Strong interaction between SiD and MDI groups at SLAC. Phil emphasized that SiD is actively working on the current paradigm i.e. configuration of machine and especially push-pull.

A discussion started about push-pull, by HW saying that SiD is working on push-pull, but it leaves many questions to be answered and that it is not the typical environment in which precision physics is done.

PB pointed later (correctly): either there are two detectors and push-pull or only one detector.

Q2: Do we think R&D will ready in 2010 to make informed decisions?

A2: we somewhat waffled on this. Expressed desire that R&D should be ready by 2010 and that IDAG should help set milestones/goals for that. (Came back today in task force discussion).

Q3: Are we simulating background (machine) and including that in our studies?

A3: we have the capability to do that within the simulation.
Norman has more?

Q4: Question about tracking ?

A2: -----

Common task groups formed:

- MDI** Group already "flying" as Yamada put it. Charge pretty clear.

- Engineering tools** Identify/define common engineering tools.....

Survey of all critical R&D needed for LOI & beyond
Are common solutions (between LOIs possible
Define priorities for R&D as required by LOIs
IDAG will contact panel **Lots of discussion**
Milestones for R&D ?

- Software panel** Some discussion about tools to be used for LOI. G4
⇔Fluka Mainly 4th concept.
Do we need software panel ? Yes

- Physics Panel** Prepare GDE/RD for fat response to first LHC results
Study scenarios and prepare document to respond to them.
Discussion about ongoing: LHC-ILC workshops
Bottom line: be ready for LHC results and



Other comments ?

H.Weerts

Phil, Marcel, Norman

Jim

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