

Charge to ILD Software Workshop

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ILD software pre-meeting

Where we are now

- ILD LOI has been validated last autumn
- We are requested by RD to perform detailed design study and write a report by 2012.
- RD's request includes
 - ◆ Develop a simulation model including faults and limitations
 - ◆ Simulate and analyze updated benchmark processes incl. 1TeV.
- In order to meet this request, we need to do
 - ◆ software updates/developments
 - ◆ optimize detector model
 - ◆ MC production and physics study

timeline for ILD software development

t0	hand in DBD	13 month
5 month	Analysis and Writing	
t0 - 5m	Monte Carlo production finished	
5 month	Grid Production	
t0 - 10m	start Monte Carlo production	
3 month	Test, Debug and release ILDsoft	
t0-13m	freeze ILDsoft development	14-26 month
>1 month	implement baseline in simulation	
t0-x	ILD baseline defined	
	evaluate technology options develop tracking package develop geometry LCIOv2 improve simulation realism improve reconstruction study machine backgrounds ...	

end of 2012

13 month prior
to hand in of **DBD**
are **fixed**

end of 2011

depending on actual
t0 we have ~1-2
years for software
developments...
e.g. t0=Oct 2012
=> 23 months
from now !

Subjects today

- Now: beginning of software development period
- Goal of this meeting is to clarify
 - ◆ what software tools has to be prepared/developed
 - ◆ what level of realism software tools should have
 - ◆ what features software tools should have
 - ◆ who is working on what

Program

- Morning sessions
 - ◆ Status and plan of simulators:
 - We think this is the central part of activity in coming months, essentially each sub-detector developers are invited.
- Afternoon
 - ◆ Reconstruction and core software tools are discussed.
- Request to all speakers
 - ◆ This meeting is to discuss technical details among software experts
 - ◆ Please leave half of allocated time for discussion
- We plan to report the outcome of this meeting in the main ILD WS for iteration with hardware experts.