

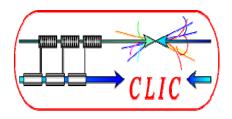


# Summary of Cost & Schedule Working Group

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CLIC/ILC Collaboration: 08/02/08

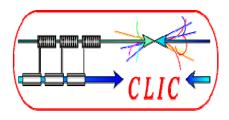
Cost/Schedule Working Group



## **Highlights**



- First time the groups had got together
- Discussions were very positive and constructive.
- Strong interest in continuing discussions and find ways to work together.
- Some specific items have been identified that we can work on together.

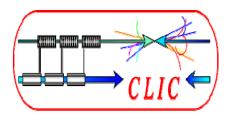


### **Discussion topics**



- 10:15-10:20 Reminder of ILC Confidentiality Protocol
- 10:20-10:55 ILC Presentation
  - RDR Estimate instructions, format, basis, status, evolution into TDR est.
    examples: Klystrons & Modulators, Beam Delivery System, Schedules
  - ILC Project Management Plans
  - Discussion of needs and desires
- 10:55-11:30 CLIC Presentation on status and discussion of needs & desires
- 11:30-11:45 Integrating parametric studies
- 11:45-12:15 Common CLIC-ILC Cost & Schedule Activities
  - Goals what we need to work on
  - Plan on how to work together
  - What can we expect to deliver over what timescale?

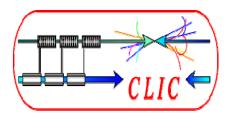
# Note: we could not arrange a joint parallel session with Civil Engineering & Conventional Facilities (maybe this can be done by webex...)



#### Discussions



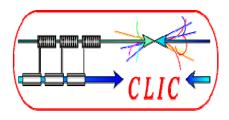
- Both groups have focused on estimating costs from the bottom up.
- More work to be done on integrated system cost optimization, eg
  - Space utilization, other civil requirements.
  - Cooling water delta-T
  - Magnet design guidelines and families.
- Discussion on how best to combine cost risks from individual elements to a global cost risk.
- How does the business model impact cost...?
  - ILC: assumes inherently based on in-kind contributions.
  - CLIC: assumes centralised funding model



### Tools



- Both groups have so far used Excel as primary costing tool.
- Both groups are looking for tools for integrating cost estimate data and to do parametric analyses, eg
  - Raw material costs, inflation rates, effort costs, etc
  - Changes in scope or requirements.
  - Consensus that Project Management cost/scheduling tools are not inherently the right tools for managing and analysing the cost estimates.
- ILC is planning to migrate to enterprise project management tools during ED phase (Primavera)



Next steps...



- Establish a certain functionality for cost data analysis, eg parametric studies, risk assessment
  - Aim to develop and share tools together
  - Start small, migrate towards enterprise tools.
- See benefit in comparing costs for certain items, eg
  - Modulator costs.
  - (confidentiality means we will need management approval)
- Compare high level methodologies & assumptions
  - Understand each others' methodology.
  - Understand how to compare cost estimates in a straight forward way.
  - Avoid unnecessary duplications of effort.