

- PAC review 18-19 May Taiwan
- Baseline Technical Reviews (BTRs)
- AD&I Meetings
- TeV Upgrade 'homework' (August 17 AD&I meeting)
- TDR Outline (update)
- Calendar / AOB

May ILC PAC Review

- Reason why we missed an AS TAG meeting ©
- All talks publically posted:
 - <u>http://ilcagenda.linearcollider.org/conferenceDisplay.py?con</u> <u>fld=5084</u>
- Machine themes:
 - SCRF R&D (incl. S1 global)
 - Beam Test Facilities (ATF/ATF2, CESRTA, FLASH)
 - TDR cost estimate (incl. SCRF mass-production)
 - TDR baseline (incl. plans for TeV upgrade studies)
 - results of TLCC
 - plans for further baseline consolidation (BTRs)
 - Collaboration with CLIC

- Importance of coherent concept beyond 2012
 - maintaining 'core team' for post GDE era
 - (comment aimed at ILCSC)
- GDE primary goal should be to keep costs
 under control
- Endorse 'build-to-print' concept for SCRF
 - labs take and manage risk
 - strong support for KEK 'pilot plant' concept
 - "Never ask industry to do what you can't do yourself"
- Encouraged by R&D results
 - gradient / scrf
 - BTF progress/successes 'impressive'

Final report should be available in coming weeks

- Important part of our design process
 - Establishing the baseline design for the TDR
 - next level of detail beyond TLCC
 - Consolidation of Technical Design Documentation (TDD → ILC-EDMS)
 - Cost estimate
 - Final Technical Design Report(s)

Schedule

- Damping Rings
 RTML
 7-8.07.11
 INFN Frascati
 DESY
- 2. RTML e+ e- sources BDS/MDI
- 3. Linac (SCRF)
- 4. CFS/Global

19-20.01.12 KEK 1st-Qtr 2012 FNAL or CERN

BTRs (Accelerator Systems)

- System design (for TDR*)
 - Parameters
 - Baseline lattice (\rightarrow see register later)
 - component descriptions (lists!)
 - magnets / power supplies / RF / vacuum / diagnostics /..
 - CFS requirements

Cost estimate

- based on above
- expected to be mostly scaled from RDR data

• For BTR

- important to identify 'what has changed' from RDR
- \rightarrow Prepare decisions / documentation in advance \leftarrow
- BTR is 'final review' of these issues
 - goal: post BTR decisions to a minimum

- Lattice design is basis for everything
- 'Design Register' first iteration to be released next week

- 22.06 AD&I meeting - presentation from Benno List

Attempting to pull together and document current lattice status

provide interface for CFS and costing

 Remaining work to be identified and prioritised

- and potentially lived with (for TDR)

- WBS structure in ILC-EDMS
- Top-level description of system (layout)
- Parameter tables
- Beamline overview
- Lattice files
- Component lists
- Component specifications

 spec. sheets
- CFS critiera
- (Cost information)

More detailed information coming soon.

Should begin to prepare for each AS in advance of the TBRs

(DR beware 🙂)

AD&I monthly meetings

- Important part of the BTR process
- Next week (22.06)
 - Preparation for DR TBR (spec. CFS)
 - Release of 1st iteration of Design Register
- July 20 (tbc)
 - Post review from DR BTR
 - Proposed agenda for DESY October review
 - Design register and documentation update/status
- August 17 1 TeV upgrade
 - Reports on TeV upgrade homework (see next)
- September / October → DESY meeting

TeV Homework (AS)

- Email request sent 10th June
 - summary of 27.05 AD&I meeting
- TeV machine parameter set for high-beamstrahlung (10%) and low beam power [Kaoru (Toshiaki, Andrei)]
 - This was proposed as a possible scenario parameter set for the physics and detector communities to study (in addition to a more conservative beamstrahlung parameter set). 300MW AC power limit
- Range of possible linac beam parameters at 1TeV Chris A., Chris N, Shigeki.
- Main linac lattice for 1 TeV upgrade (assuming existing quadrupole arrangement and limits) Kiyoshi and Nikolay
- Possible parameter sets for two and three-stage bunch compressor - Nikolay
- Proposal for undulator source parameters at 1 TeV (Wei, update from Accel. Systems meeting 20.05)
- BDS relevant issues for TeV operation (collimation system, main beam dump) – Andrei
- DR and e- source will need to comment on any possible parameter sets

TDR Outline

- Part 1: R&D Summary
 - Interim Report Chapters 1-3
- Part 2: Reference Design
 - organized per Accelerator System
 - includes TeV
 - includes Cost and Schedule
- Part 3: Risk Analysis and post 2012 work
 R & D, Project Engineering and Risk Analysis
- Part 4: Project Implementation Plan
 - Harrison and ILC-EC

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Final outline (including next-level sections by midsummer) Begin work at LCWS

ilc

- DR BTR workshop
- EC face-to-face
- TDR Costing
- SRF11 satellite meeting industrial
- IPAC11
- LCWS11 (ILC-CLIC workshop)
- RTML/Sources/BDS BTR workshop DESY
- ILC PAC Review
- TTC / S1 Global
- Linac BTR workshop

7-8 July 19-20 July 20-21 July 24 July 4-9 Sept 26-30 Sept 24-28 Oct

14-15 Nov 5-9 Dec 19-20 Jan