

Cost Related Presentation

For GDE Director's Visit at KEK
2005.6.27

T.Shidara, KEK

1. Organization
2. Basic Materials
3. Issues
4. What We Need

1. Organization

ILC-Asia Costing Coordinator : T. Shidara
with ILC-Asia WGs and LC office

Supporting Experts :

S. Noguchi, K. Saito (SC Cavities),
K. Tsuchiya, K. Hosoyama (Cryomodules & Cryogenic System),
S. Fukuda, H. Matsumoto (RF Sources & RF Components),
R. Sugahara (BT & Magnets),
H. Hayano (Monitors & LLRF),
M. Kuriki (Damping Rings & Injectors),
K. Furukawa (Control),
S. Ban (Radiation Safety),
A. Enomoto (Conventional Facilities), + LC Forum of Japan +

2. Existing Materials

Reports from :

Enomoto et al for GLC Cost Estimation (2003-04)

Yoshioka et al for TESLA Assessment Task (2003-04)

+ TESLA TDR

Report on the TESLA Engineering Study/Review (2001)

US Linear Collider Option Evaluation Study (2004)

Construction Experiences of :

KEKB, Electron/Positron Injector Linac, ATF, STF-I,

+ XFEL, STF-II, SMTF,

3. Issues

Baseline Design :

one tunnel vs two tunnels, positron source scheme, damping ring scheme, 1 TeV extension, +++

Detailed design of each components :

cavity fabrication process, klystron modulator type, power distribution scheme, +++

Industrialization : Essential for cost estimation

STF, TTF, XFEL, SMTF, +++

4. What We Need

- Aside from the agreement over the contents of BCD, sufficiently detailed to initiate development of WBS and practical cost evaluations, we need:
- Time schedule for our cost studies.
- Guidelines for the inter-regional cooperation and information sharing (for instance, detailed data for TESLA TDR).
- Guidelines for cooperation with the industrial sectors (regional and international).