

ILC Inputs to ESU

- Two documents defined by Juan and Steinar:
 - General ILC project description: status, situation and physics case (J. Brau coordinator).
 - Description of European participation and capabilities including accelerator and detector&physics activities, (S. Stapnes and J. Fuster coordinators).

ESU-ILC Document 1

- "General ILC project description: status, situation and physics case."
- The deadline, specified by the guidelines for the Update is December 18.
- Draw from full community,
 - editorial team: Jim Brau, Keisuke Fujii, Juan Fuster, Christophe Grojean, Benno List, Jenny List, Michael Peskin, Junping Tian
- DESY svn repository

Guidelines

The guidelines define three parts to the submission:

Cover page (1 page)

Each document submitted should carry a single cover page containing no more than the title, the contact person(s) and an abstract.

Comprehensive overview (maximum 10 pages)

This core part of the document must be no more than 10 pages long (excluding the cover page) and must provide a comprehensive and self-contained overview of the proposed input. It should address:

- scientific context, objectives, methodology, readiness and expected challenges.

Addendum

A separate addendum is to be provided addressing the following topics (where relevant):

- interested community, timeline, construction and operational costs (if applicable), computing requirements.

Comprehensive Overview

Introduction 1 page Jim and Juan

introduce the ILC250, brief overview of status (technical maturity and TDR, staging, cost analysis, status of political situation)

Physics 2 pages Michael, Christophe, Keisuke, Jenny, Junping

summary of the impact of the ILC250 physics (also point out potential future through energy extensions)

Collider 2 pages Benno, Shin

summary of the ILC250 design (important to note the elements that are retained in first stage to accommodate future energy extensions)

Detectors and R&D 2 pages Ties, Andy

summary of the features of the two validated detectors and the key advances from detector R&D

Discussion 2 pages Keisuke, Jim and Juan

discussion of HEP community interest and support, political progress, plan for international realization,

Summary & Conclusion 1 page

Addendum

Chapter title / length in pages / nominated lead authors (to be recruited)

Introduction	5	Brau + Peskin
ILC Machine Design	15	B. List + Michizono
ILC running scenario (w. pol.)	5	J. List
Physics Case (250 GeV)	10	Peskin
Detectors	10	Behnke + White
Physics Simulations: Higgs	20	Tian + J. List
Physics Simulations: Searches	5	Berggren
Program of the ILC beyond 250 GeV	10	Peskin, Fujii and Vos
Conclusion		

80+ pages