



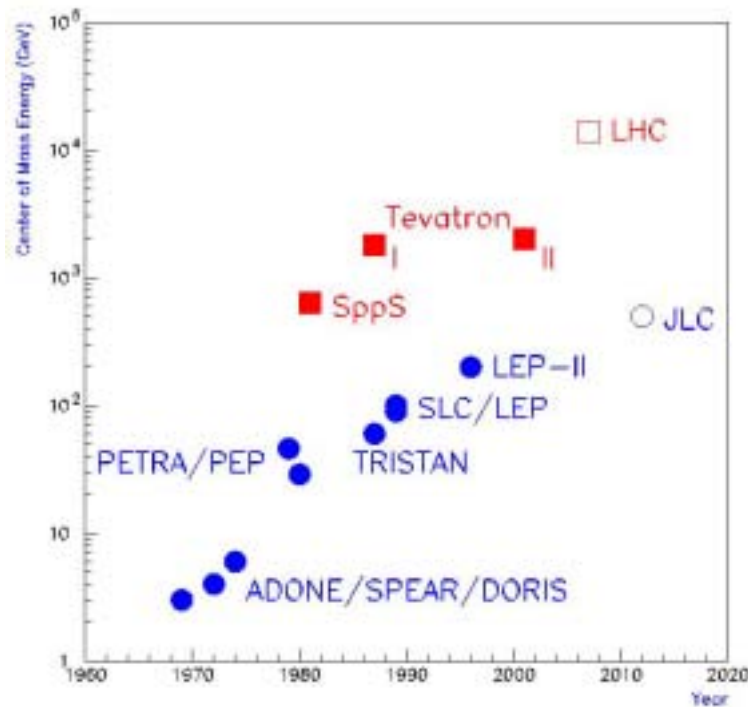
World-wide LHC/LC Study

LC physics study group meeting

@KEK, 2003/04/25

K. Kawagoe / Kobe U.

Relation of Lepton colliders and Hadron colliders



- W/Z:
SppS → LEP/SLC
- Top:
LEP → Tevatron → LC
- Higgs:
LEP → LHC → LC ?



World-wide LHC/LC study group

The aim is to investigate

- How to combine information from LHC and LC ?
- How can LHC analyses profit from LC and vice versa ?

My personal aim is

- to promote concurrent operation of LC and LHC.
 - LHC will start in 2007.
 - LC will start in 2012 ??



Organization

- Currently 184 WG members from ATLAS, CMS, LC WGs, theory + Tevatron contact person
- WG coordination
 - R. Godbole (Asia), F. Paige (US), G. Weiglein (Europe)
- Web page:
 - <http://www.ippp.dur.ac.uk/~georg/lhclc>
- Mailing list:
 - LHC-LC@fnal.gov
- Recognized by ILCSC (ECFA/DESY, Amsteldam, 2003)



Meetings

- April 12-15, 2002 St. Malo (ECFA/DESY)
- July 5, 2002 CERN,
- October 7, 2002, CERN
- December 12/13, 2002, Fermilab (ALCPG)
- February 14, 2003, CERN (Nojiri, KK)
- May 5, 2003, CERN (next month)



WG document

- Summary of activities of LHC/LC study group and other available information.
- Exploratory study, this can only be a first step.
- Suggestions for future work.
- To be ready by end of May 2003 ?
 - Drafts by May 8th.
 - As an input of Les Houches workshop (June 2003)
- Editorial board members
 - T. Barklow, A. De Roeck, D. Denegri, K. Desch, F. Gianotti, R. Godbole, K. K., F. Paige, F. Richard, H. Shellman, G. Weiglein, (+M. Nojiri ?)



Contents of the document

- Will be focused on LHC/LC “interplay”.
- Works without consideration of LHC/LC interplay will just be referred to.
- Topics will include
 - EW symmetry breaking
 - SUSY
 - New gauge theories
 - Extra dimensions
 - Exotics
 - EW/QCD precision physics



Summary

- LHC will start in 2007. LC will start in 2012?
- World-wide LHC/LC study group is formed, and preparing a document.
- Need more activity in Asian region ?
 - LC people are busy for LC....
 - LHC people are busy for LHC....
 - Any more manpower for the LHC/LC study ?
- **ANYWAY, JOIN THE LHC/LC ML !!**