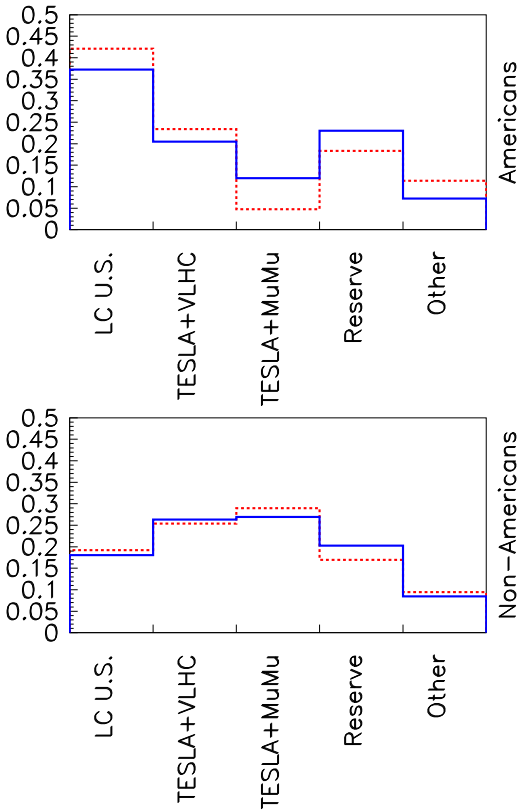
YPP@SLAC Presents: Michael E. Peskin's "Physics at e^+e^- Linear Colliders"

Young Particle Physicists at SLAC

- YPP@SLAC wants YOU! to participate.
- See our webpage at
  `http://www-project.slac.stanford.edu/ypp/`
- The global YPP includes chapters at SLAC, FNAL, DESY, CERN, BNL, CESR and six universities.
- See the global YPP webpage at `http://ypp.hep.net/`
- See the results of a YPP survey question on new facilities at right (originally presented at Snowmass 2001). [1]
- The Young Physicists Forum, many members of which are also active in the YPP, issued a summary[2] of their activity at Snowmass 2001.



YPP survey results on the new facilities question.

[1] See hep-ex/0108040 for the full survey results.
[2] See hep-ex/0110027.

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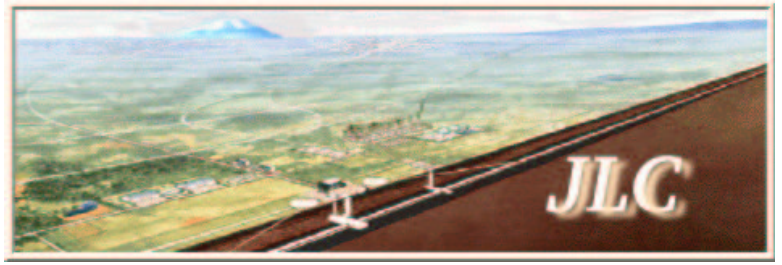
The Future Linear Collider



- At Snowmass 2001, the directors of SLAC and FNAL issued a statement endorsing the linear collider as the next major facility after the LHC. Furthermore, the "P" (Physics) groups issued a joint statement endorsing the linear collider as the next major HEP facility.
- The 2002 HEPAP (High Energy Physics Advisory Panel) subpanel report issued the following recommendation:

  "We recommend that the highest priority of the U.S. program be a high-energy, high-luminosity, electron-positron linear collider, wherever it is built in the world. This facility is the next major step in the field and should be designed, built and operated as a fully international effort."
- The "Linear Collider R&D Opportunities Workshop" will be held at SLAC on May 31 in the Panofsky Auditorium. For details see

  `http://www-conf.slac.stanford.edu/lcrd02`.
- The "Linear Collider Retreat" will be held at UC Santa Cruz from June 27-29. Register now! See `http://scipp.ucsc.edu/LC/`

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Michael Peskin

- Co-authored "An Introduction to Quantum Field Theory" with Daniel Schroeder
- Gave numerous talks on Higgs and supersymmetry phenomenology at the future linear collider
- Wrote `pandora`, an object-oriented event simulator for linear collider studies.
- Will deliver these lectures (originally delivered to the Fermilab Graduate Students Association in Summer 2001):
  - Lecture 1: e^+e^- Annihilation to Fermions (Tues. May 14, 3pm)
  - Lecture 2: W and Top (Thurs. May 16, 3pm)
  - Lecture 3: Higgs Bosons (Tues. May 21, 3pm)
  - Lecture 4: Supersymmetric Particles (Thurs. May 23, 3pm)

Lecture slides are linked from the YPP@SLAC webpage and can also be found at

`http://www.slac.stanford.edu/ mpeskin/`

Michael E. Peskin poring over "The Higgs Hunter's Guide".