# The ILC Report to Snowmass

M. E. Peskin Energy Frontier Meeting March 2022 Everything that you would like to know about the ILC — and more — is reviewed in the ILC Snowmass white paper

arXiv:2203.07622

This report covers the all aspect of the ILC. Most chapters deal with the general case for an e+e- Higgs factory as the next collider.

I encourage you to endorse this report. Please visit

https://agenda.linearcollider.org/event/9135/

There are 506 signatories as of today.

### Chapters 1, 2

general introduction, crisp statement of physics case

# Chapter 3

ILC organization, status of ILC in Japan

### Chapter 5

introduction to e+e- experimentation

# Chapter 4

accelerator design
"Green ILC"
R&D to construction
future of superconducting RF

# Chapter 6, 7

detectors - ILD, SiD and other possible technologies simulation framework (full simulation)

# Chapters 8, 9, 10

physics studies and projected errors, most from full-sim analyses

# Chapter 11

ILC fixed target and beam dump program

# Chapter 12

SMEFT interpretation, framework for "model-independent" width

# Chapter 13, 14

theoretical interpretation: "Big Questions", comparison with models

# Chapter 15

future of the ILC lab future colliders in the ILC tunnel