

PHYSICS DEPARTMENT COLLOQUIUM

“LINEAR COLLIDER ”

BY

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One of the important developments in elementary particle physics over the past ten years has been the precision study of the weak interactions through experiments in e^+e^- annihilation. The weak interactions are parity-violating, and so spin observables have played a key role in this program. In the past year, building on the successes of this study, particle physicists have proposed the construction of a giant e^+e^- linear collider, which will use the same tools to explore deeper into the structure of the weak interactions and even beyond them. In this colloquium, I will describe some of the recent precision weak-interaction experiments and some projected experiments that might be carried out in e^+e^- annihilation at the next step in energy.

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4:00 PM IN 102 JFB
REFRESHMENTS AT 3:30 PM IN 219 JFB