

HEPAP

August 5, 6, 2002

Ithaca, NY

E P P @ CORNELL

CLEO

CESR

Theory

Acc. Physics

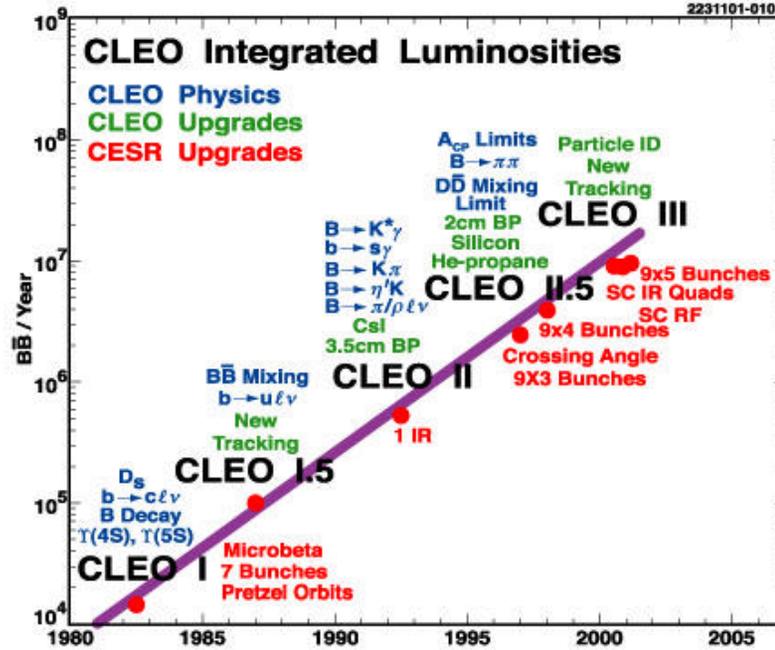
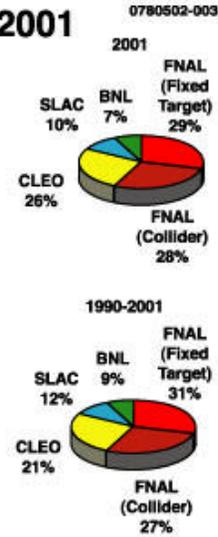
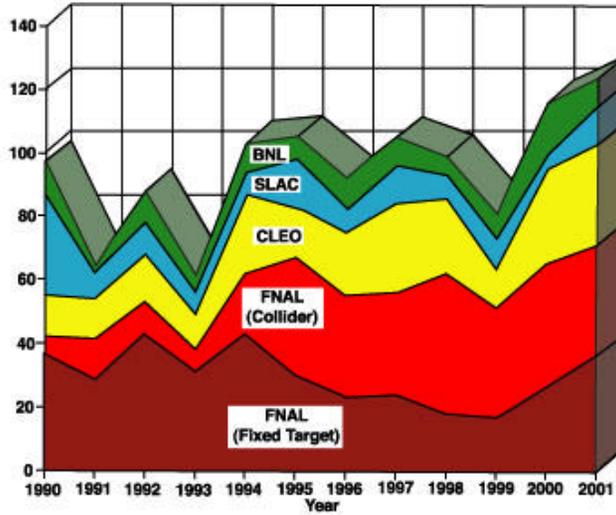
CLEO

- Run on Y (4S mostly) until a year ago
- Run on or near other Y resonances since
- Proposed to run high lumi at lower energies for a combination of weak decay and QCD physics through ~ 2006: CLEO/CESR-c
- Cornell proposes to segue towards Linear Collider for the future after CESR

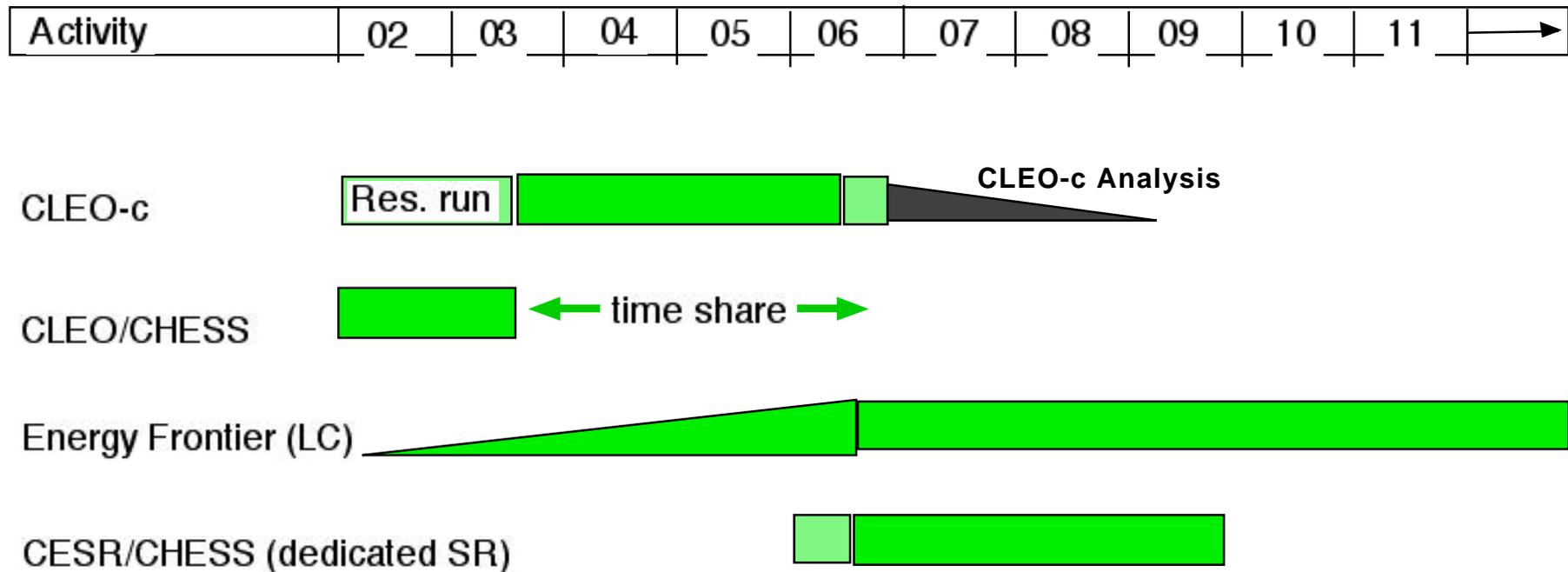
CESR

- Furnish luminosity for CLEO, x-rays for CHSS and laboratory for accelerator physics and technology
(see historical summary and schedule)

Experimental HEP Publications 1990-2001



The CESR / CLEO Track Record



Theory

- Standard Model Physics: QED and atoms, QCD, heavy-quark physics
- Beyond the Standard Model: supersymmetry, extra dimensions and cosmology
- Numerical quantum field theory, lattice QCD
- Formal quantum field theory, string theory
- Relativity: numerical, gravity waves, cosmology
- Field theoretic applications to condensed matter physics.

Accelerator Physics and Technology

- Storage ring physics and technology
- Linear Collider physics and technology
- General beam physics
- RF Superconductivity physics and technology
- Muon based accelerators