



ACRONYMS AND MORE

ATLAS

A Toroidal LHC Apparatus, one of five particle detector experiments under construction at the LHC at CERN in Geneva, Switzerland

BESSY

Berliner Elektronenspeicherring-Gesellschaft für Synchrotron Strahlung m. b. h. (Berlin electron storage ring company for synchrotron radiation), a research institution for science and industry in Berlin, Germany

CEBAF

Continuous Electron Beam Accelerator Facility, an accelerator facility at Jefferson Lab in Newport News, Virginia

CERN

Organisation Européenne pour la Recherche Nucléaire (European Organization for Nuclear Research), the world's largest particle physics laboratory west of Geneva, on the border between France and Switzerland

CESR

Cornell Electron Storage Ring

CHES

Cornell High Energy Synchrotron Source, a national research center at Cornell

CLASSE

Cornell Laboratory for Accelerator-based Sciences and Education, the merger of LEPP and CHES

CLEO

Short for Cleopatra, Cornell's particle detector; During his years as a graduate student at Cornell from 1971 to 1978, Christopher T. Day, Ph.D.'78, physics, suggested the name

CLEO for Cornell's new particle detector, paired with CESR (Cornell Electron Storage Ring), after Caesar and Cleopatra.

CMS

Compact Muon Solenoid, an experiment at LHC

CP violation

Charge parity; a theoretical phenomenon related to the Big Bang

CW

Continuous wave

DESY

Deutsches Elektronen-Synchrotron (German Electron Synchrotron), a publicly funded national research center with locations in Hamburg and Zeuthen, Germany

DIAMOND

Diamond light source, a new scientific facility under construction in South Oxfordshire, England, on the Harwell Chilton science campus

ERL

Energy Recovery Linac, Cornell's new linear accelerator currently in the prototype stage

Fermilab

Fermi National Accelerator Laboratory, a Department of Energy laboratory located in Batavia, Illinois

G-line

The last line to be added after lines A-F at CHES

ILC

International Linear Collider, a next-generation accelerator

IP

Interaction point

KEK-B

High Energy Accelerator Research Organization, an accelerator used in the Belle experiment to study CP violation, located in Tsukuba, Ibaraki Prefecture, Japan

LEPP

Laboratory of Elementary-Particle Physics, a national research center at Cornell

LHC

Large Hadron Collider, a next-generation accelerator under construction in Geneva, Switzerland

MacCHESS

Macromolecular Facility at CHES; Former Cornell faculty member Keith Moffat, a Scotsman, coined the term MacCHESS as "son of CHES," short for Macromolecular Facility at CHES.

SIMS

Secondary ion mass spectrometry

SPring-8

An 8-GeV, third-generation x-ray synchrotron source in Harima Science Garden City, Hyogo, Japan

SR

Synchrotron radiation

SRF

Superconducting radio frequency