

Places to learn more: Particle and nuclear physics links

<http://pdg.lbl.gov>

<http://particleadventure.org>

<http://www.slac.stanford.edu/gen/edu/aboutslac.html>

<http://www.bnl.gov/bnlweb/sciindex.html>

<http://www.bnl.gov/rhic/>

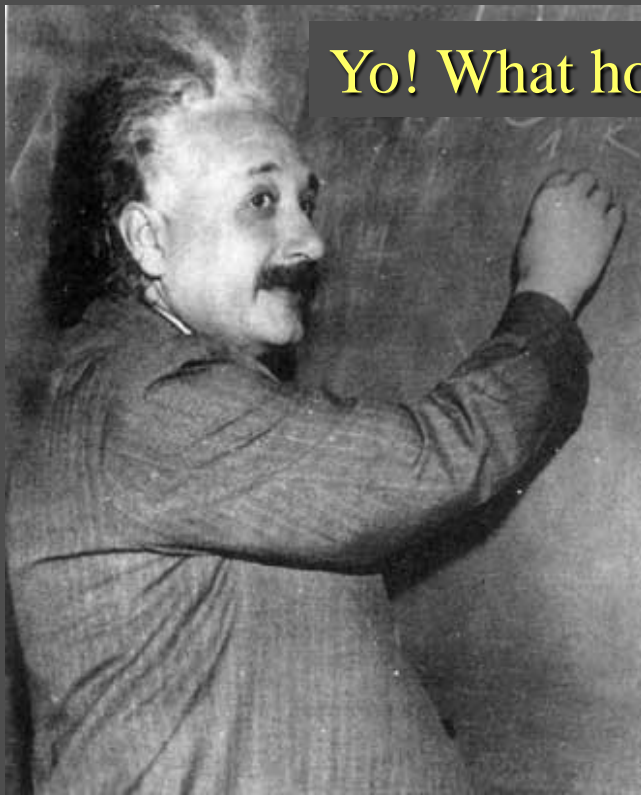
<http://public.web.cern.ch/public/>

<http://www.fnal.gov/>

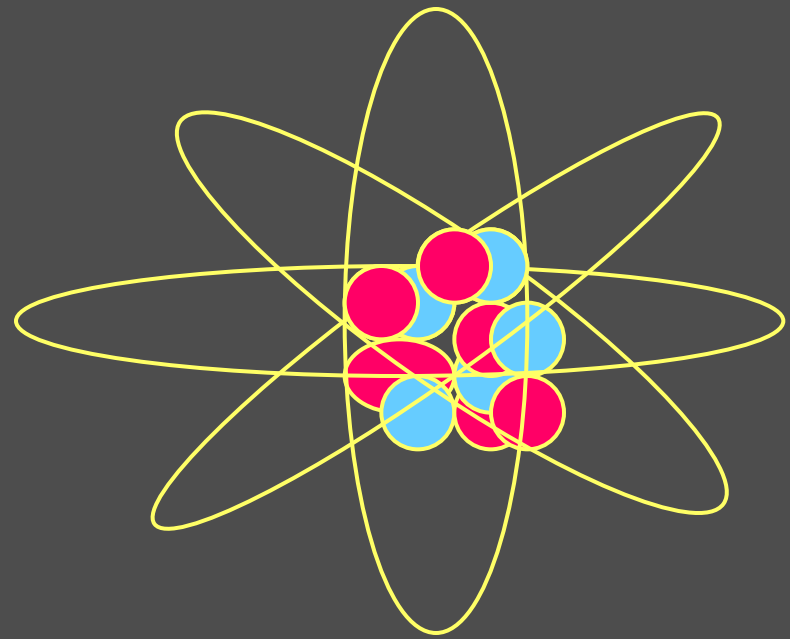
<http://www.er.doe.gov/production/henp/np/index.html>

<http://www.science.doe.gov/hep/index.shtm>

Inquiring minds want to know ...



Yo! What holds it together?

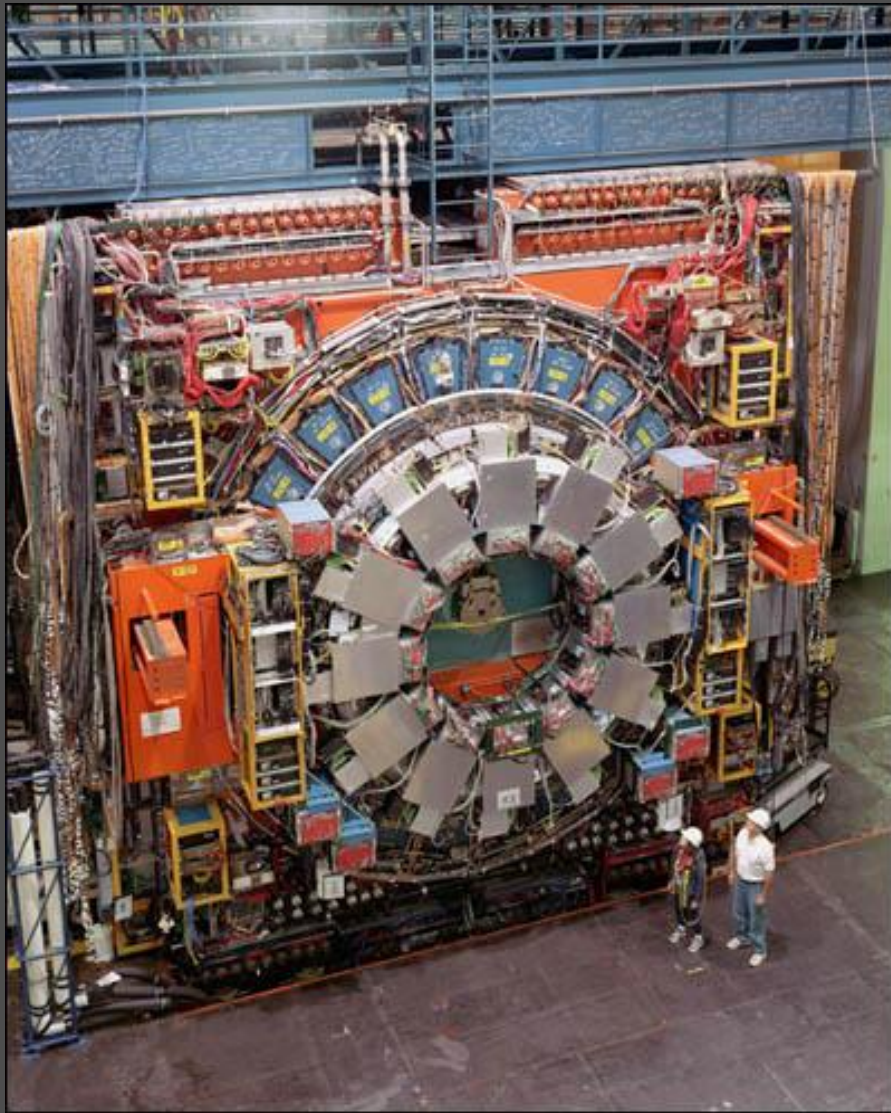




Fermi National Accelerator Laboratory (near Chicago)



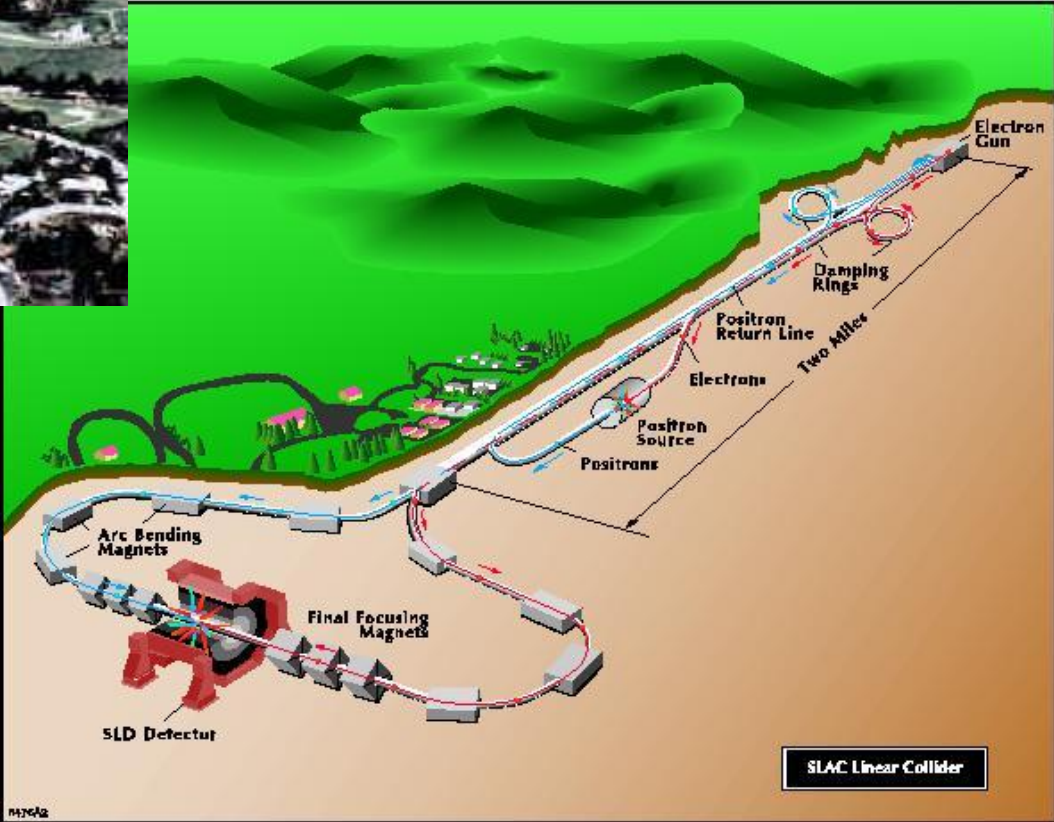
CDF



Minos



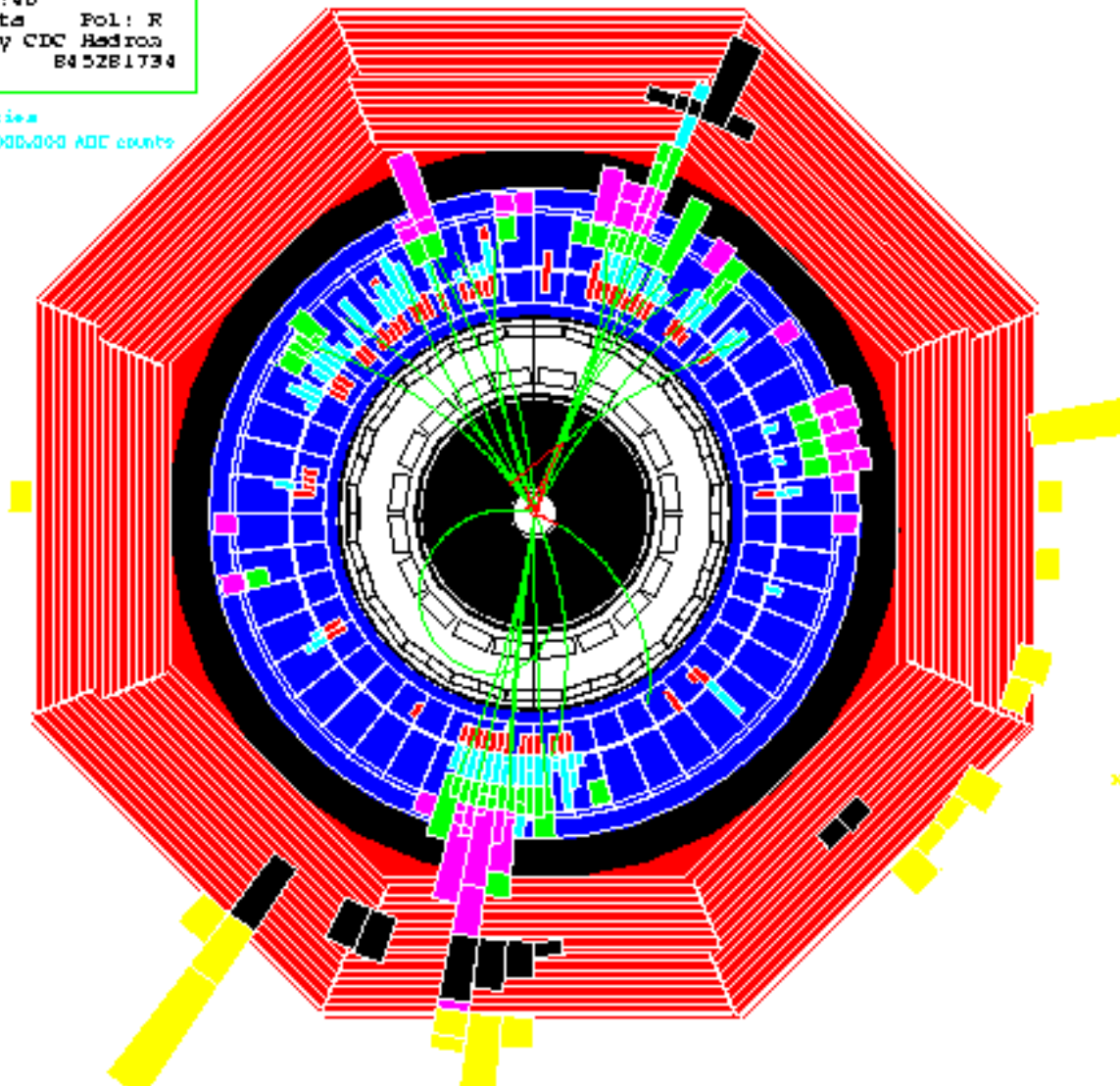
Stanford Linear Accelerator Center



Event display from the SLD experiment at SLAC

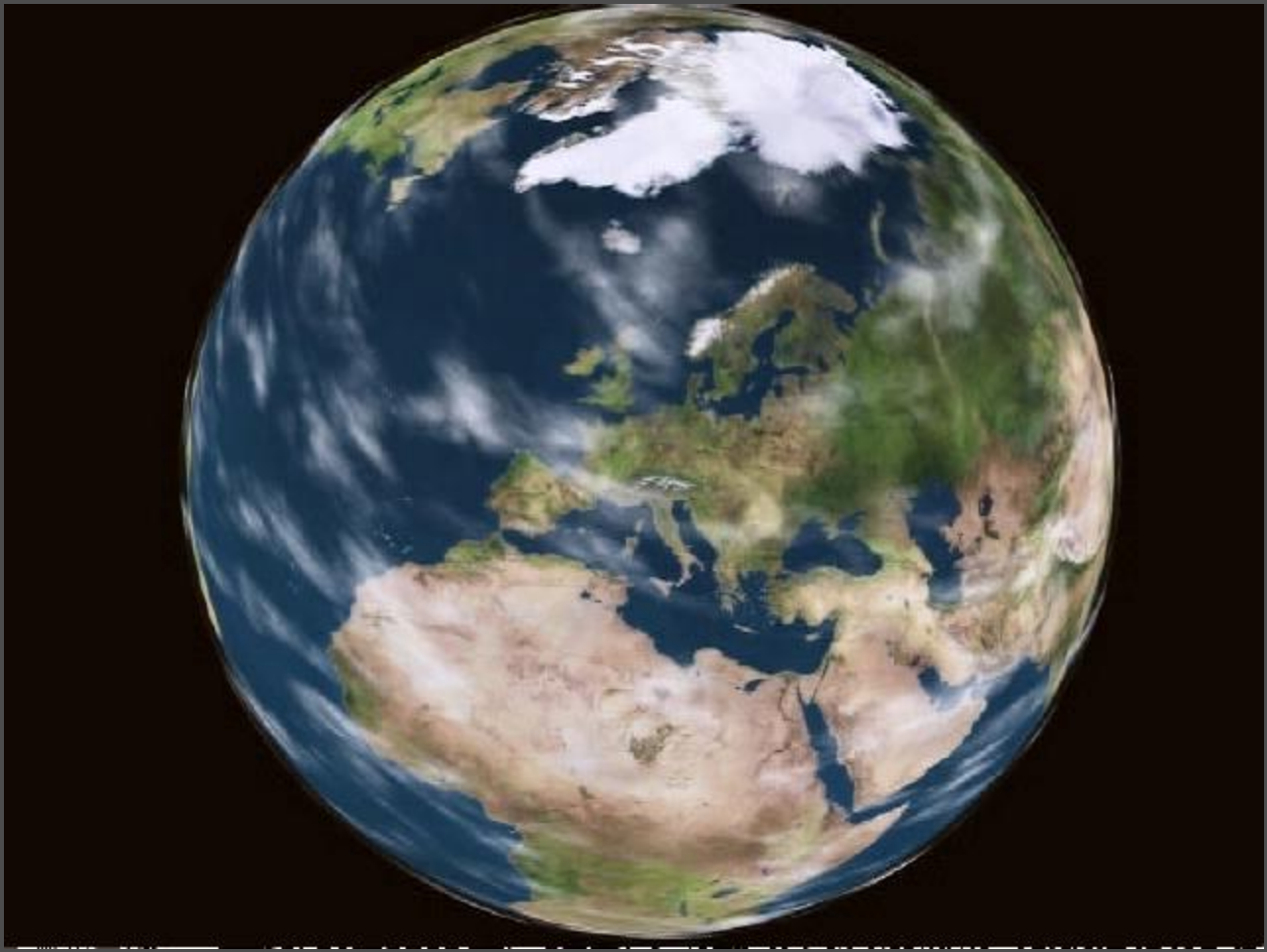
Run 20578, EVENT 779
23-MAR-1993 12:40
Source: Run Data Fol: F
Trigger: Energy CDC Hadron
Beam Crossing 845281734

XAL hit properties
 $5.025 < E_{\text{had}} < 150000000$ ADC counts



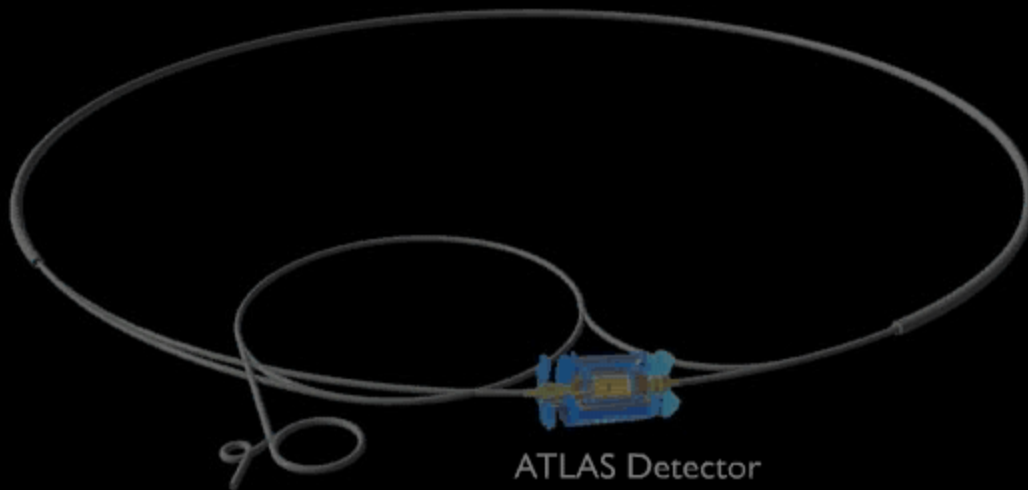
XAL Subsystems
XIM 0
XIM 1
LAC XN1
LAC XN2
LAC XN3
LAC XN4
MIC 1
MIC 2





PLAY ▶

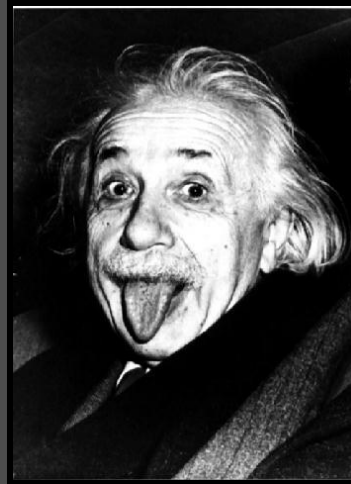
Large Hadron Collider



ATLAS Detector

What forces exist in nature?

What is a force?



How do they interact?

How do forces change with energy or temperature?

How has the universe evolved?