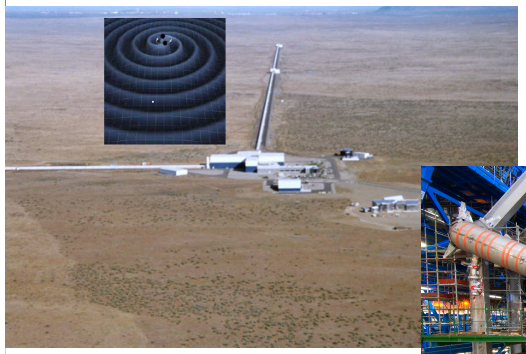
Amherst Center for Fundamental Interactions

Physics at the interface: Energy, Intensity, and Cosmic frontiers

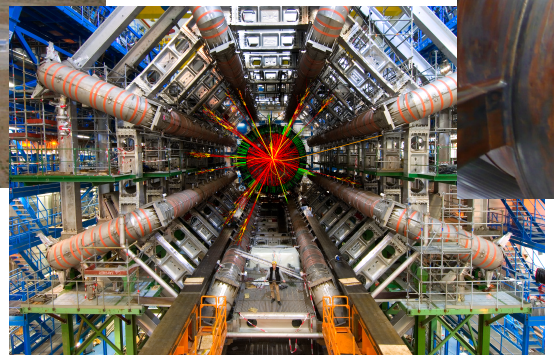
University of Massachusetts Amherst

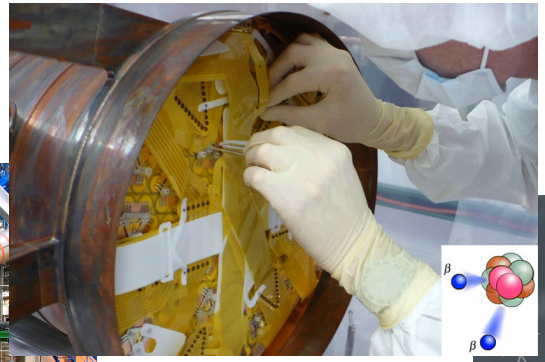
Welcome to the ACFI !



LIGO

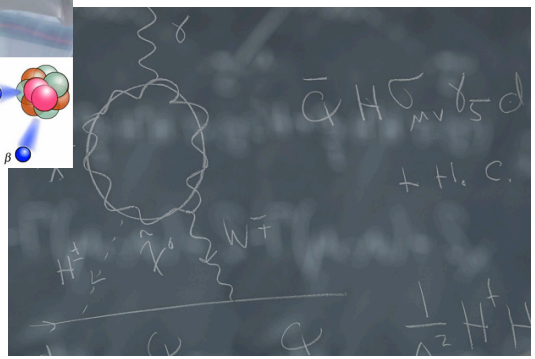
ATLAS





EXO

Theory



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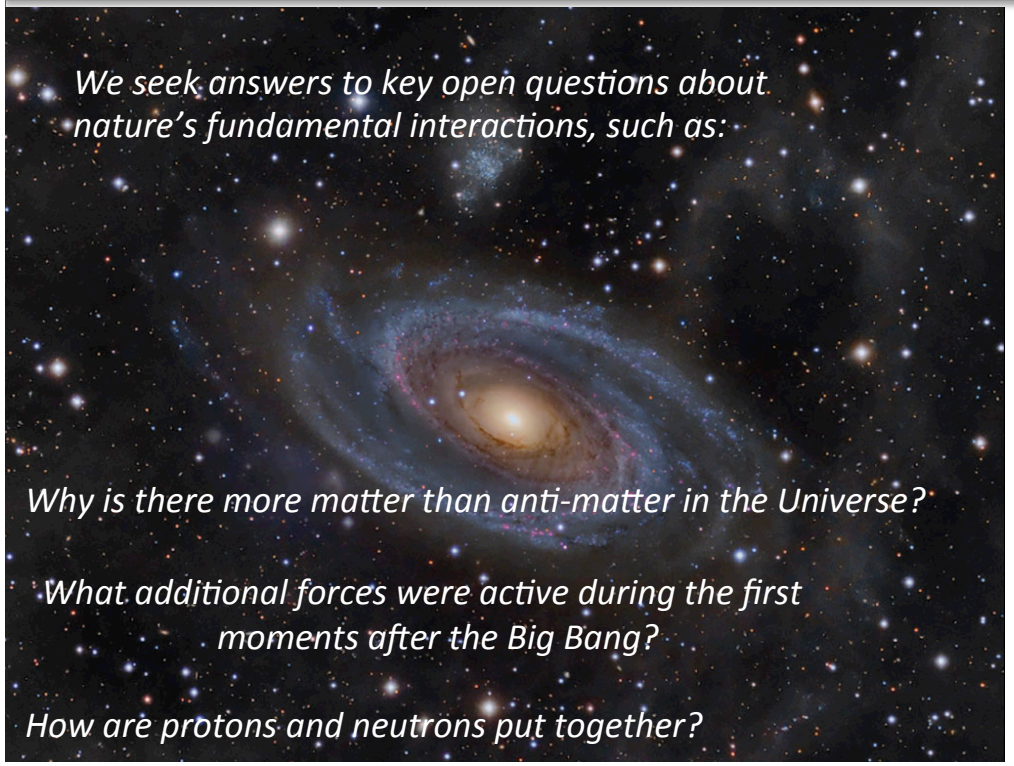

Our mission:

Advancing research in theoretical and experimental physics at the interface of the Energy, Intensity, and Cosmic frontiers.

http://www.physics.umass.edu/acfi/

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Activities

- **Core Research:** *ATLAS, EXO, J Lab parity & chiral, LIGO, RHIC Spin, Borexino, Theory*
- **Targeted Workshops:** *Hadronic Probes, Lambda & Quasi Lambda, Higgs Portal,…*
- **Visiting Researchers:** *Ph.D. students (Australia, China), post-docs, faculty & senior researchers*

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Past Workshops

Hadronic Probes of Fundamental Symmetries

Joint ACFI-Jefferson Lab Workshop

March 6-8, 2014

U Mass Amherst

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Past Workshops

Lambda and Quasi-Lambda

ACFI Workshop

April 10-12, 2014

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Past Workshops

Unlocking the Higgs Portal

ACFI Workshop

May 1-3, 2014

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Upcoming Workshops

Measuring the Neutron Lifetime

ACFI Workshop

September 19-21 , 2014

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Upcoming Workshops

Fundamental Symmetry Tests with Rare Isotopes

Joint ACFI-FRIB Workshop

October 23-25, 2014

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Upcoming Workshops

Time-Reversal Tests in Nuclear and Hadronic Processes

ACFI Workshop

November 6-8, 2014

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Upcoming Workshops

Hadronic Matrix Elements for Electric Dipole Moments

ACFI Workshop

Winter-Spring, 2015

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Upcoming Workshop

International Workshop on Baryon & Lepton Number Violation

ACFI Workshop/Conference

April 26-30, 2015

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Meeting Logistics

- **Wireless Network: UMASS (usr & pw in packet)**
- **Lunch: on campus**
- **Workshop Dinner: Friday @ Johnny's Tavern, 6:30 pm**
  Saturday: on own in Amherst Ctr
- **Schedule: online**
- **People: students, post-docs, staff**