



College of
Science
Department of Physics
& Astronomy

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Weekly Calendar

February 15-20, 2016

Departmental Colloquium

" Superconductors Old and New "

3:30 PM Thursday, February 18, 2016

109 Nicholson Hall

Robert Birgenau

University of California at Berkeley

HOST: Ward Plummer

• Refreshments served at 3:10 PM in 232 (Library) Nicholson Hall •

Condensed Matter Physics is a field, which continuously renews itself through the discovery of new materials and new phenomena. This has been particularly true for the subfield of superconductivity. We will review the progress in this field from Kammerlingh Onnes's discovery of superconductivity in mercury in 1911 to the Bednorz-Mueller ground breaking discovery of high temperature superconductivity in the lamellar copper oxides in 1986 to recent work on the Fe arsenides and selenides. Research on superconductivity has produced theoretical insights which have implications not only for superconductivity itself but for systems as varied as liquid crystal gels and the fundamental constituents of the universe.

ORED Colloquium

" Public Research Universities- Challenges and Solutions "

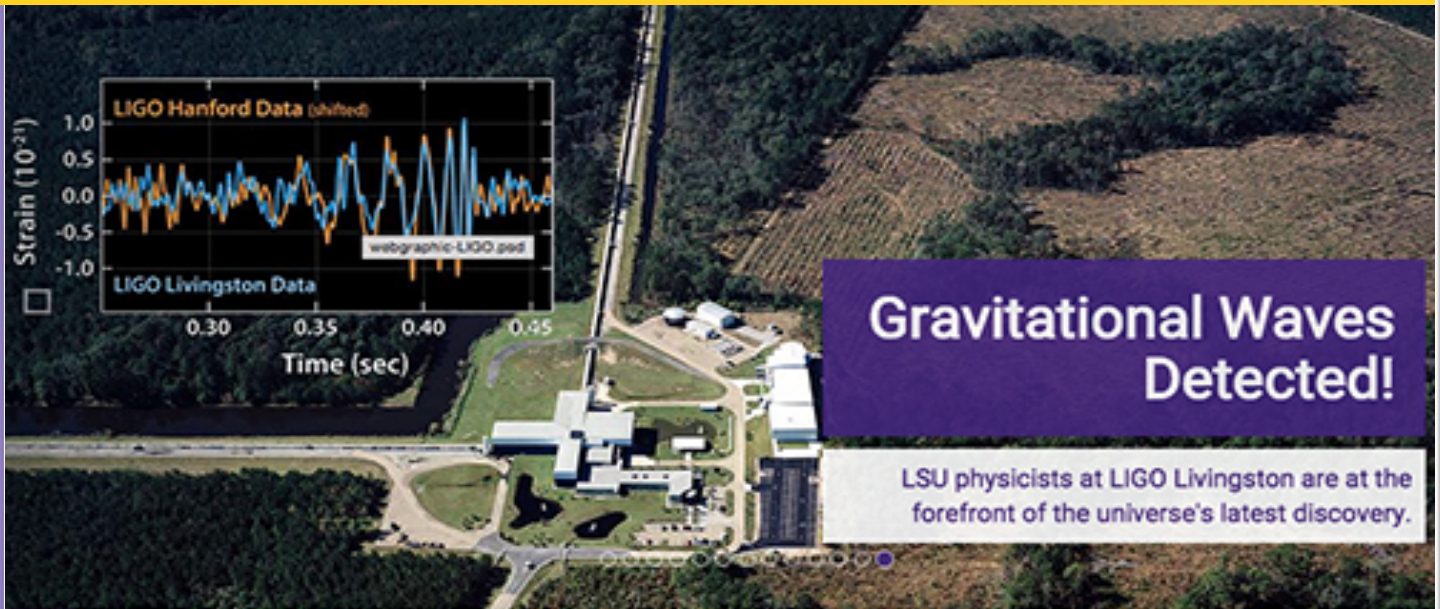
9:30 AM Thursday, February 18, 2016

Dalton Woods Auditorium

Robert Birgenau

University of California at Berkeley

LSU Physics & Astronomy in the News



LIGO announces the detection of gravitational waves from a binary black hole merger. On Sept. 14, 2015 at 9:50:45 UTC, the two detectors of the LIGO Observatory simultaneously observed a transient gravitational wave signal due to the inspiral and merger of a pair of black holes, with masses 36 and 29 M_{\odot} , at a distance of approximately 410 Mpc. [Read More](#)

Physical Review Letters paper: <http://physics.aps.org/articles/v9/17>

NSF press conference: <https://www.youtube.com/user/VideosatNSF/live>

Black hole mergers: <http://www.ligo.org/science/Publication-NINJA2>

LIGO website: <https://ligo.caltech.edu/LA>

LSU Physics & Astronomy Dept. Relativity group:

<http://www.phys.lsu.edu/newwebsite/research/relativity.html>

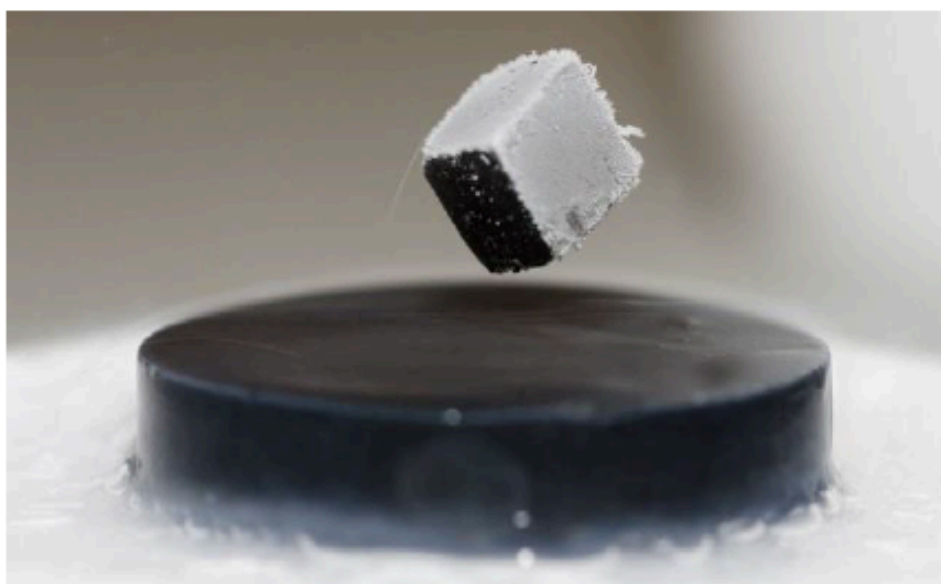
The New York Times: [Scientists Detect Gravitational Waves, Proving Einstein Right](#)

CNN.com: [Gravitational waves open 'a window on the universe,' scientists say](#)

SATURDAY SCIENCE

AT LOUISIANA STATE UNIVERSITY

Magnetic Materials and Solid State Cooling



A public lecture by

Dr. Shane Stadler

LSU Department of Physics
& Astronomy



20 February 2016, 10-11:00 a.m.

Room 130 Nicholson Hall, LSU

LSUSaturdayScience@gmail.com



LSU
Office of
Research & Economic Development

9:30 a.m.
Thursday,
February 18
Dalton Woods Auditorium
Louisiana State University



Robert Birgeneau served as the chancellor of the University of California, Berkeley from 2004 to 2013, and as president of University of Toronto from 2000 until 2004. Birgeneau received a B.Sc. degree from the University of Toronto and a Ph.D. from Yale University in Physics. He worked at Bell Laboratories from 1968 to 1975 and then moved to MIT, where he served as department chair and dean.

He is a member of the National Academy of Sciences and a fellow of the American Academy of Arts and Sciences. While chancellor of UC Berkeley he created the Middle Class Access Plan, which capped the total annual cost of an eligible students' education to a percentage of the family income.

Public Research Universities: Challenges and Solutions

A PUBLIC LECTURE BY

Professor Robert Birgeneau

Co-Project Chair of The Lincoln Project: Excellence and Access in Public Higher Education, a project funded by the American Academy of Arts and Science

Public research universities underlie our economy and our democracy. They provide the conduit into mainstream society for countless, talented and ambitious young Americans from highly disadvantaged backgrounds. In spite of this, across the nation there has been an unprecedented disinvestment in public higher education by state governments. We discuss the consequences of this disinvestment and the remarkable ways that our public universities have coped with the budget cuts, state by state. We discuss ways of moving forward that will guarantee the national and international pre-eminence of American public higher education. This will require increased support by federal and state governments, corporations, foundations and philanthropists. This talk derives from The Lincoln Project: Access and Excellence in Public Higher Education carried out under the auspices of the American Academy of Arts and Sciences.

