

# 2016 FIU Department of Physics Seminars

## **Turbulence in The Relativistic Universe**

Dr. Jonathan Zrake, Kavli Institute for Particle Astrophysics and Cosmology

*Jan. 22, 2016*

## **Panther Alumni Week special talk-Atomic Membranes**

Professor J. Scott Bunch Department of Mechanical Engineering and Division of Materials Science and Engineering Boston University

*Feb. 5, 2016*

## **The Mu2e Experiment**

Alumni Dr. Jason Bono will visit FIU Physics and give a colloquium on his research project in Fermilab

*Feb. 12, 2016*

## **ALCHIM: Using $^1\text{H}$ NMR to measure the Length of Fatty Acids**

Dr. Joseph Sachleben is a Research Scientist and Technical Director of University of Chicago's Biological Sciences NMR facility.

*Feb. 25, 2016*

## **Excitonic Resonant Emission-Absorption of Surface Plasmon in Transition Metal Dichalcogenides**

Professor Jiming Bao from Department of Electrical and Computer Science, University of Houston, will give a colloquium talk on his research in nanophotonics and nanomaterials.

*March 4, 2016*

## **LIGO, squeezed states of light, and nonlinear light-atom interactions**

Dr. Eugeniy Mikhailov from the College of William & Mary will give a talk on his research in quantum optics.

*April 1, 2016*

## **Photopatterning of Molecular Orientation in Liquid Crystals**

Professor Qihuo Wei from Kent State University will give a talk on soft matter Physics.

*April 15, 2016*

## **Nuclear Physics in Proton Therapy**

Professor Cynthia Keppel Hall A and C Experimental Group Leader Thomas Jefferson National Accelerator Facility Community Faculty, Department of Radiation Oncology and Biophysics Eastern Virginia Medical School Senior Executive Director Hampton University Proton Therapy Institute

*April 22, 2016*

**Light with a twist: an introduction to twisted light with orbital angular momentum**

Mark Siemens, Assistant Professor of Physics & Astronomy at the University of Denver

*April 29, 2016*

**Active learning and adaptive testing in a large enrollment physics class**

Professor Joerg Reinhold will give a talk on Physics Education

*Sept. 2, 2016*

**Materials under Extreme Conditions**

Professor Jihua George Chen, Professor of Materials Engineering, Director of CeSMEC, FIU

*Sept. 23, 2016*

**Modeling Biophysical Processes at the Bio-Nano Interface**

Dr. Binqun Luan From IBM research lab will give a talk on Theoretical Biophysics

*Sept. 30, 2016*

**Tailored Colloidal Nanocrystal Clusters of Iron-oxide for Diagnosis and Therapy**

Professor Alexandros Lappas, Research Director, Institute of Electronic Structure and Laser, Foundation for Research and Technology (Greece)

*Oct. 21, 2016*

**Cell mechanics in 3D**

Professor Robert Ros from Physics Department and Center for Biological Physics of Arizona State University will give a talk on Experimental Biophysics. This talk is supported by BSI.

*Oct. 28, 2016*

**Broken Symmetry and Magnetic Skyrmions**

Professor Sunxiang Huang from UM Physics Department will give a talk on experimental condensed matter physics

*Nov. 4, 2016*

**Proton Remains Puzzling**

Professor Haiyan Gao from Duke University Physics Department will give a talk on Nuclear Physics.

*Nov. 18, 2016*