

Department of Physics  
Florida State University  
77 Chieftan Way  
Tallahassee, FL 32306



FLORIDA STATE UNIVERSITY

Dear Parents, Teachers, Administrators, and Friends,

Saturday Morning Physics introduces students and community members to current topics in physical science, presented by scientists active in research. We seek to educate, entertain, and inspire. We offer this program free to the participants; it is funded by Florida State University. Over the years, thousands of students of all ages have enjoyed Saturday Morning Physics, learning and benefiting from the opportunity to interact directly with working scientists.

Please help us by distributing information about this year's program. The first presentation will be Saturday, October 8. All presentations will be delivered in person, and more information is available on the website <https://physics.fsu.edu/saturday-morning-physics>. Please encourage students to attend! The Physics Department will provide attendance records for teachers who want to consider Saturday Morning Physics for extra credit.

The schedule (below) is available online at <http://physics.fsu.edu/saturday-morning-physics> and may easily be found by searching for "FSU Saturday Morning Physics." Sessions start at 9:30 and run until about 11:15 am.

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10/8/2022	<b>Astronomy in a Universe Filled with Light and Dark Matter</b> Explore the Universe from sub-atomic particles to black holes to clusters of galaxies. See how tools like the James Webb Space Telescope, microwave-frequency telescopes, and the LIGO gravitational wave detectors test the extremes of natural laws.	Dr. Kevin Huffenberger Dr. David Collins
10/15/2022	<b>Materials for Modern Society</b> Modern society relies on thousands of complex materials that are optimized to specific tasks. I will discuss how we got here, with a focus on: the excitement of exploring a dynamic periodic table; the intersections between physics, chemistry and materials science; and the non-intuitive role of quantum mechanics.	Dr. Ryan Baumbach Dr. Guangxin Ni
10/22/2022	<b>Physics of Waves</b> Catch the wave with these spectacular demonstrations of the physics of all types of waves, from the ocean to the radio!	Dr. Sean Dobbs Dr. Hanwei Gao
10/29/2022	<b>Particle Physics: Understanding the Universe from the Subatomic Scale</b> Learn of the discoveries that informed our understanding of the fundamental forces of nature, and what the future may hold!	Dr. Ted Kolberg Dr. Kohsaku Tobioka
11/5/2022	<b>Forging Elements in Exploding Stars and in the Lab</b> Discover how exploding stars made us all, and how we study nuclear processes here on Earth. Additionally, a tour of the accelerator lab at Florida State University will be given.	Dr. Kevin Fossez Dr. Mark Spieker
11/12/2021	<b>Physics on the Web</b> Physics experiments are normally done in the laboratory, which often proves expensive and is accessible to only a few. The situation has dramatically changed with the rise of the World Wide Web, which allows access to an enormous variety of interactive online physics tools for simulating real life situations, as well as laboratory experiments. In this lecture we perform both real physics demonstrations and their WWW counterparts, to teach the participants on how to enjoy as well as learn from the online physics resources	Dr. Vladimir Dobrosavljevic Dr. Hitesh Changlani

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Feel free to contact me ([sdobbs@fsu.edu](mailto:sdobbs@fsu.edu)) if you have further questions.

Best regards,

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