DEPARTMENT OF PHYSICS AND ASTRONOMY

Physics seeks to understand the fundamental workings of nature, from the constituents of matter deep within the nuclei of atoms, to the most distant galaxies of our expanding universe, to everyday phenomena of emergent complexity, self-organization and chaos. The resulting basic physical knowledge provides a firm foundation for innovations and is often the driving force of advanced technology. Computers, global positioning systems (GPS), the internet, lasers, magnetic resonance imaging (MRI) and other medical diagnostic tools, and space flight, along with many others, were all made possible by key advances in physics.

Physicists have a curiosity that thrives on the challenge of solving problems. Consistent with this, the physics program at Texas A&M strives to teach analytical thinking and quantitative problem-solving skills. This enables students to work productively in physics, in areas closely related to physics, and in a wide variety of areas outside of physics proper. Physicists can be found in almost any discipline that requires complex problem-solving skills. Some apply new-found knowledge to make practical advances in the fields of computer science, medical science, and engineering. Still, others use their knowledge to advocate, advise, inform, instruct and administrate as lawyers, consultants, journalists/writers, teachers, and managers.

The Department of Physics and Astronomy offers two undergraduate degree programs, a Bachelor of Arts and a Bachelor of Science, as well as minors in Astrophysics and Physics. The Bachelor of Science degree includes tracks in Astrophysics, Business, Computational Science, Materials Physics, Physics and Mathematics Teaching, and Physical Science Teaching, in addition to a no-track option. The Department of Physics and Astronomy also offers Master of Science degrees in Astronomy and Physics, and Doctor of Philosophy degrees in Applied Physics, Astronomy, and Physics.

The faculty members of the department carry out theoretical and experimental research in the areas of astronomy and astrophysics, atomic, molecular and optical physics, computational physics, cosmology, high-energy and elementary particle physics, condensed matter physics and materials science, nuclear physics, quantum optics, and physics education. During the course of their undergraduate experience at Texas A&M, Physics majors have the opportunity to work with faculty in all of these areas.

Faculty

Abanov, Artem G, Associate Professor
Physics & Astronomy
PHD, Texas A&M University, 1998

Adsley, Philip, Assistant Professor
Physics & Astronomy
PHD, University of York, 2013

Agnolet, Glenn, Professor
Physics & Astronomy
PHD, Cornell University, 1983

Allen, Roland E, Professor
Physics & Astronomy
PHD, The University of Texas at Austin, 1969

Bassichis, William H, Professor
Physics & Astronomy
PHD, Case Western Reserve University, 1963

Becker, Katrin, Professor
Physics & Astronomy
PHD, University of Bonn, 1994

Belic, Milivoj R, Professor
Physics & Astronomy
PHD, The City University of New York, 1980

Belyanin, Alexey A, Professor
Physics & Astronomy
PHD, Institute of Applied Physics Russian Academy of Sciences, 1995

Borzenets, Ivan, Assistant Professor
Physics & Astronomy
PHD, Duke University, 2012

Bouhali, Othmane, Research Professor
Physics & Astronomy
PHD, Universite Libre de Bruxelles, Faculte des Sciences, 1999

Chin, Siu A, Professor
Physics & Astronomy
PHD, Stanford University, 1975

Depoy, Darren L, Professor
Physics & Astronomy
PHD, University of Hawaii at Manoa, 1987

Dutta, Bhaskar, Professor
Physics & Astronomy
PHD, Oklahoma State University, 1995

Erukhimova, Tatiana L, Instructional Professor
Physics & Astronomy
PHD, Institute of Applied Physics, Russian Academy of Sciences, 1999

Eusebi, Ricardo, Professor
Physics & Astronomy
PHD, University of Rochester, 2006

Finkelstein, Alexander, Professor
Physics & Astronomy
PHD, Landau Institute for Theoretical Physics, 1972

Ford, Albert L, Professor
Physics & Astronomy
PHD, The University of Texas at Austin, 1972

Fries, Rainer J, Professor
Physics & Astronomy
PHD, University of Regensburg, Germany, 2001

Fry, Edward S, Distinguished Professor
Physics & Astronomy
PHD, University of Michigan, 1969
Gagliardi, Carl A, Professor
Physics & Astronomy
PHD, Princeton University, 1982

Holt, Jeremy W, Assistant Professor
Physics & Astronomy
PHD, Stony Brook University, 2008

Holt, Nathan, Lecturer
Physics & Astronomy
PHD, Texas A&M University, 2016

Kamon, Teruki, Professor
Physics & Astronomy
PHD, University of Tsukuba, 1986

Kaya, Ali, Instructional Assistant Professor
Physics & Astronomy
PHD, Texas A&M University, 2001

Kelly, Kevin, Assistant Professor
Physics & Astronomy
PHD, Northwestern University, 2018

Kennicutt, Robert Charles, Professor
Physics & Astronomy
PHD, University of Washington, 1978

Khmelenko, Vladimir, Research Professor
Physics & Astronomy
PHD, Institute of Chemical Physics, 1984

Ko, Che-Ming, University Distinguished Professor
Physics & Astronomy
PHD, State University of New York at Stony Brook, 1973

Kocharovskaya, Olga A, Distinguished Professor
Physics & Astronomy
PHD, Institute of Applied Physics, Russian Academy of Sciences, 1986

Kocharovsky, Vitaly V, Professor
Physics & Astronomy
PHD, Institute of Applied Physics, Russian Academy of Sciences, 1986

Kolomenski, Alexandre, Research Professor
Physics & Astronomy
PHD, P N Lebedev Physics Institute of the Russian Academy of Sciences, 1980

Kordell, Michael, Lecturer
Physics & Astronomy
PHD, Wayne State Univ, 2017
PHD, Wayne State University, 2017

Krolikowski, Wieslaw Z, Professor
Physics & Astronomy
PHD, Institute of Physics, Polish Academy of Sciences, 1988

Lee, David M, University Distinguished Professor
Physics & Astronomy
PHD, Yale University, 1959

Lyuksyutov, Igor F, Professor
Physics & Astronomy

Macri, Lucas M, Professor
Physics & Astronomy
PHD, Harvard University, 2001

Mahapatra, Rupak K, Professor
Physics & Astronomy
PHD, University of Minnesota, 2000

Marshall, Jennifer L, Associate Professor
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PHD, Ohio State University, 2006

May, Larry, Lecturer
Physics & Astronomy
PHD, Texas A&M University, 2015

McIntyre, Peter M, Professor
Physics & Astronomy
PHD, University of Chicago, 1973

Melconian, Daniel G, Professor
Physics & Astronomy
PHD, Simon Fraser University, 2006

Mioduszewski, Saskia, Professor
Physics & Astronomy
PHD, University of Tennessee, 1999

Mirabolfathi, Nader, Research Associate Professor
Physics & Astronomy
PHD, University of Paris XI, 2002

Naugle, Donald G, Professor
Physics & Astronomy
PHD, Texas A&M University, 1965

Nha, Hyon Cheol, Professor
Physics & Astronomy
PHD, Seoul National University, 2002

Nodurft, Dawson, Instructional Assistant Professor
Physics & Astronomy
PHD, Texas A&M University, 2019

Papovich, Casey J, Professor
Physics & Astronomy
PHD, Johns Hopkins University, 2002

Pokrovsky, Valery, Distinguished Professor
Physics & Astronomy
PHD, Tomsk State University, 1957

Pope, Christopher N, Distinguished Professor
Physics & Astronomy
PHD, University of Cambridge, 1980

Rapp, Ralf F, Professor
Physics & Astronomy
PHD, Rheinische Friedrich-Wilhelma University, Bonn, 1996
Rodriguez Nieva, Joaquin, Assistant Professor  
Physics & Astronomy  
PHD, Massachusetts Institute of Technology, 2016

Rogachev, Grigory V, Professor  
Physics & Astronomy  
PHD, National Research Centre, 1999

Ross Jr, Joseph H, Professor  
Physics & Astronomy  
PHD, University of Illinois at Urbana-Champaign, 1986

Safonov, Alexei N, Professor  
Physics & Astronomy  
PHD, University of Florida, 2001

Saslow, Wayne M, Professor  
Physics & Astronomy  
PHD, University of California at Irvine, 1968

Schuessler, Hans A, Professor  
Physics & Astronomy  
PHD, Universitat Heidelberg, 1964

Scull, Marlan O, Distinguished Professor  
Physics & Astronomy  
PHD, Yale University, 1966

Sezgin, Ergin, Professor  
Physics & Astronomy  
PHD, State University of New York at Stony Brook, 1980

Sokolov, Alexei V, Professor  
Physics & Astronomy  
PHD, Stanford University, 2001

Spilker, Justin, Assistant Professor  
Physics & Astronomy  
PHD, University of Arizona, 2017

Strigari, Louis E, Professor  
Physics & Astronomy  
PHD, Ohio State University, 2005

Suntzeff, Nicholas B, University Distinguished Professor and Regents Professor  
Physics & Astronomy  
PHD, University of California at Santa Cruz, 1980

Teizer, Winfried, Professor  
Physics & Astronomy  
PHD, University of Massachusetts - Amherst, 1998

Toback, David, Professor  
Physics & Astronomy  
PHD, University of Chicago, 1997

Tribble, Robert E, Senior Professor  
Physics & Astronomy  
PHD, Princeton University, 1973

Tzortzakis, Stylianos, Professor  
Physics & Astronomy  
PHD, Ecole Polytechnique, France, 2001

Walsh, Jonelle L, Assistant Professor  
Physics & Astronomy  
PHD, University of California at Irvine, 2011

Wang, Lifan, Professor  
Physics & Astronomy  
PHD, University of Science and Technology of China, 1993

Wu, Wenhao, Associate Professor  
Physics & Astronomy  
PHD, University of Chicago, 1992

Xu, Shenglong, Research Assistant Professor  
Physics & Astronomy  
PHD, Univ of California, San Diego, 2017

Youngs, Michael, Lecturer  
Physics & Astronomy  
PHD, Michigan State University, 2013

Zheltikov, Alexey M, Professor  
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PHD, Lomonosov Moscow State University, 1990

Zubairy, Muhammad S, University Distinguished Professor  
Physics & Astronomy  
PHD, University of Rochester, 1979

**Majors**


**Minors**