

# DEPARTMENT OF PHYSICS AND ASTRONOMY

<http://physics.tamu.edu> (<http://physics.tamu.edu/>)

**Head:** G. V. Rogachev

**Graduate Advisors:** R. Rapp (Physics and Applied Physics); L. Strigari (Astronomy)

The physics and astronomy curriculum provides classroom and research experience that prepares a graduate student for a career of either research and teaching at a university, or research and development at an industrial or government laboratory. The courses are well suited to graduate students in chemistry, mathematics, geosciences or engineering, as well as those seeking a graduate degree in physics or astronomy.

The faculty members of the department carry out theoretical and experimental research in the following areas: astronomy, atomic and molecular, computational physics, cosmology, high-energy, low-temperature/condensed matter, materials science, nuclear physics, and quantum optics. Laboratories supporting the experimental programs are well-equipped with modern research apparatus. Special support facilities include an astronomical instrumentation laboratory, access to high-performance computing, a variable-energy cyclotron, and many shared campus facilities.

## 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

Brown, Peter, Research Associate Professor  
Physics & Astronomy  
PHD, Pennsylvania State University, 2009

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

Farooqi, Mohammed, Instructional Assistant Professor  
Physics & Astronomy  
PHD, The University of Texas at San Antonio, 2018

Finkelstein, Alexander, Professor  
Physics & Astronomy  
PHD, Lauda 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

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

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

Hu, Baishan, Research Assistant Professor  
Physics & Astronomy  
PHD, Peking University, 2017

Huffenberger, Kevin, Professor  
Physics & Astronomy  
PHD, Princeton University, 2006

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  
PHD, Highest Attestation Commission at Ministry of Education and Science of Russian Federation, 1990

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

Marshall, Jennifer L, Associate Professor  
Physics & Astronomy  
PHD, Ohio State University, 2006

May, Larry, Instructional Assistant Professor  
Physics & Astronomy  
PHD, Texas A&M University, 2015

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

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

Nodurft, Dawson, Instructional Associate 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

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

Scully, 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

Smith, Krista, Associate Professor  
Physics & Astronomy  
PHD, University of Maryland, 2017

Sokolov, Alexei V, University Distinguished 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

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

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

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

Walsh, Jonelle L, Associate 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, Assistant Professor  
Physics & Astronomy  
PHD, Univ of California, San Diego, 2017  
PHD, University of California, San Diego, 2017

Youngs, Michael, Instructional Assistant Professor  
Physics & Astronomy  
PHD, Michigan State University, 2013

Zheltikov, Alexey M, Professor  
Physics & Astronomy  
PHD, Lomonosov Moscow State University, 1990

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

- Master of Science in Physics (<http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/arts-and-sciences/physics-astronomy/physics-ms/>)

## Doctoral

- Doctor of Philosophy in Applied Physics (<http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/arts-and-sciences/physics-astronomy/applied-physics-phd/>)
- Doctor of Philosophy in Astronomy (<http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/arts-and-sciences/physics-astronomy/astronomy-phd/>)
- Doctor of Philosophy in Physics (<http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/arts-and-sciences/physics-astronomy/physics-phd/>)

## Masters

- Master of Science in Astronomy (<http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/arts-and-sciences/physics-astronomy/astronomy-ms/>)