

# Physics

Website: <http://physics.wustl.edu/graduate>

## Faculty

### Chair

**Henric Krawczynski** (<https://physics.wustl.edu/people/henric-krawczynski/>)

Wayman Crow Professor of Physics  
PhD, University of Hamburg  
Experimental high-energy astrophysics

### Associate Chair

**Saori Pastore** (<https://physics.wustl.edu/people/saori-pastore/>)

Associate Professor  
PhD, Old Dominion University  
Theoretical nuclear physics

### Endowed Professors

**Ramanath Cowsik** (<https://physics.wustl.edu/people/ramanath-cowsik/>)

James S. McDonnell Professor of Space Sciences  
PhD, University of Bombay  
Astrophysics and space sciences

**Kenneth F. Kelton** (<https://physics.wustl.edu/people/kenneth-f-kelton/>)

Arthur Holly Compton Professor of Physics  
PhD, Harvard University  
Condensed matter and materials physics

**Henric Krawczynski** (<https://physics.wustl.edu/people/henric-krawczynski/>)

Wayman Crow Professor of Physics  
PhD, University of Hamburg  
Experimental high-energy astrophysics

**Kater Murch** (<https://physics.wustl.edu/people/kater-murch/>)

Charles M. Hohenberg Professor in Experimental Physics  
PhD, University of California, Berkeley  
Quantum information and materials

**Li Yang** (<https://physics.wustl.edu/people/li-yang/>)

Albert Gordon Hill Professor in Physics  
PhD, Georgia Institute of Technology  
Condensed matter theory and computational materials physics

### Professors

**Mark Alford** (<https://physics.wustl.edu/people/mark-g-alford/>)

PhD, Harvard University  
Nuclear/particle physics

**James H. Buckley** (<https://physics.wustl.edu/people/james-h-buckley/>)

PhD, University of Chicago  
Experimental high-energy astrophysics

**Anders E. Carlsson** (<https://physics.wustl.edu/people/anders-e-carlsson/>)

PhD, Harvard University  
Biophysics

**Willem H. Dickhoff** (<https://physics.wustl.edu/people/willem-h-dickhoff/>)

PhD, Free University, Amsterdam  
Many-body theory

**Jonathan I. Katz** (<https://physics.wustl.edu/people/jonathan-i-katz/>)

PhD, Cornell University  
Theoretical astrophysics

**Zohar Nussinov** (<https://physics.wustl.edu/people/zohar-nussinov/>)

PhD, University of California, Los Angeles  
Theoretical condensed matter physics

**Michael C. Ogilvie** (<https://physics.wustl.edu/people/michael-c-ogilvie/>)

PhD, Brown University  
Theoretical particle physics

**Alexander Seidel** (<https://physics.wustl.edu/people/alexander-seidel/>)

PhD, Massachusetts Institute of Technology  
Theoretical condensed matter physics

**Ralf Wessel** (<https://physics.wustl.edu/people/ralf-wessel/>)

PhD, University of Cambridge  
Biophysics

### Joint Professor

**Lee G. Sobotka** (<https://physics.wustl.edu/people/lee-sobotka/>)

PhD, University of California, Berkeley  
(Chemistry)  
Experimental nuclear physics

### Associate Professors

**Bhupal Dev** (<https://physics.wustl.edu/people/bhupal-dev/>)

PhD, University of Maryland, College Park  
Theoretical astroparticle physics and cosmology

**Francesc Ferrer** (<https://physics.wustl.edu/people/francesc-ferrer/>)

PhD, Universitat Autònoma de Barcelona  
Theoretical astroparticle physics and cosmology

**Erik Henriksen** (<https://physics.wustl.edu/people/erik-henriksen/>)

PhD, Columbia University  
Condensed matter and materials science

**Ryan Ogiore** (<https://physics.wustl.edu/people/ryan-ogiore/>)

PhD, California Institute of Technology  
Cosmochemistry and planetary science

## Assistant Professors

**Yuran Chen** (<https://physics.wustl.edu/people/alex-chen/>)

PhD, Columbia University  
High-energy astrophysics, neutron stars, black holes, and plasma physics

**Tansu Daylan** (<https://physics.wustl.edu/people/tansu-daylan/>)

PhD, Harvard University  
Exoplanets, dark matter, and astrostatistics

**Manel Errando** (<https://physics.wustl.edu/people/manel-errando/>)

PhD, Universitat Autònoma de Barcelona  
High-energy astrophysics, black holes, active galactic nuclei

**Shankar Mukherji** (<https://physics.wustl.edu/people/shankar-mukherji/>)

PhD, Massachusetts Institute of Technology/Harvard Medical School  
Systems cell biology

**Maria Piarulli** (<https://physics.wustl.edu/people/maria-piarulli/>)

PhD, Old Dominion University  
Theoretical nuclear physics

**Sheng Ran** (<https://physics.wustl.edu/people/sheng-ran/>)

PhD, Iowa State University  
Condensed matter and quantum materials

**Mikhail Tikhonov** (<https://physics.wustl.edu/people/mikhail-tikhonov/>)

PhD, Princeton University  
Microbiome, microbial ecology, and evolution

**Yajie Yuan** (<https://physics.wustl.edu/people/yajie-yuan/>)

PhD, Stanford University  
Theoretical high-energy astrophysics

**Chong Zu** (<https://physics.wustl.edu/people/chong-zu/>)

PhD, Tsinghua University  
Atomic, molecular and optical physics; condensed matter; and quantum information

## Teaching Professor

**Mairin Hynes** (<https://physics.wustl.edu/people/kathryn-mairin-hynes/>)

PhD, Washington University

## Lecturer

**Augusto Medeiros da Rosa** (<https://physics.wustl.edu/people/augusto-medeiros-da-rosa/>)

PhD, Washington University

## Research Professors

**Sachiko Amari** (<https://physics.wustl.edu/people/sachiko-amari/>)

PhD, Kobe University

**Jeffrey Gillis-Davis** (<https://physics.wustl.edu/people/jeffrey-gillis-davis/>)

PhD, Rice University  
Experimental astrophysics

**Alexander Meshik** (<https://physics.wustl.edu/people/alex-meshik/>)

PhD, Vernadsky Institute of Cosmochemistry

**Michael Nowak** (<https://physics.wustl.edu/people/michael-nowak/>)

PhD, Stanford University

## Research Associate Professors

**Olga Pravdivtseva** (<https://physics.wustl.edu/people/olga-pravdivtseva/>)

PhD, Vernadsky Institute, Russian Academy of Sciences

**Brian Rauch** (<https://physics.wustl.edu/people/brian-rauch/>)

PhD, Washington University

## Professors Emeriti

**Carl M. Bender** (<https://physics.wustl.edu/people/carl-bender/>)

Wilfred R. and Ann Lee Konneker Professor of Physics  
PhD, Harvard University

**Claude W. Bernard** (<https://physics.wustl.edu/people/claude-bernard-0/>)

PhD, Harvard University

**Thomas Bernatowicz** (<https://physics.wustl.edu/people/thomas-j-bernatowicz/>)

PhD, Washington University

**Robert Binns** (<https://physics.wustl.edu/people/w-robert-binns/>)

PhD, Colorado State University

**John W. Clark** (<https://physics.wustl.edu/people/john-w-clark/>)

PhD, Washington University

**Mark S. Conradi** (<https://physics.wustl.edu/people/mark-s-conradi/>)

PhD, Washington University

**Peter A. Fedders** (<https://physics.wustl.edu/people/peter-fedders/>)

PhD, Harvard University

**Patrick C. Gibbons** (<https://physics.wustl.edu/people/patrick-c-gibbons/>)

PhD, Harvard University

**Charles M. Hohenberg (<https://physics.wustl.edu/people/charles-m-hohenberg/>)**

PhD, University of California, Berkeley

**Martin H. Israel (<https://physics.wustl.edu/people/martin-h-israel/>)**

PhD, California Institute of Technology

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PhD, University of London

**James G. Miller (<https://physics.wustl.edu/people/james-g-miller/>)**

Albert Gordon Hill Professor of Physics

PhD, Washington University

**Peter R. Phillips (<https://physics.wustl.edu/people/peter-r-phillips/>)**

PhD, Stanford University

**James S. Schilling (<https://physics.wustl.edu/people/james-s-schilling/>)**

PhD, University of Wisconsin-Madison

**Stuart A. Solin (<https://physics.wustl.edu/people/stuart-solin-0/>)**

Charles M. Hohenberg Professor of Experimental Physics

PhD, Purdue University

**Wai-Mo Suen (<https://physics.wustl.edu/people/wai-mo-suen-0/>)**

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**Clifford Will (<https://physics.wustl.edu/people/clifford-m-will/>)**

PhD, California Institute of Technology