Stanford



Roger Romani

Professor of Physics

Bio

ACADEMIC APPOINTMENTS

- Professor, Physics

Teaching

COURSES

2026-27

- Introduction to Stellar and Galactic Astrophysics: PHYSICS 160, PHYSICS 260 (Win)
- The Origin and Development of the Cosmos: PHYSICS 16 (Spr)

2025-26

- Introduction to Stellar and Galactic Astrophysics: PHYSICS 160, PHYSICS 260 (Win)
- The Origin and Development of the Cosmos: PHYSICS 16 (Spr)

2024-25

- Introduction to Stellar and Galactic Astrophysics: PHYSICS 160, PHYSICS 260 (Win)
- The Origin and Development of the Cosmos: PHYSICS 16 (Spr)

2023-24

- Introduction to Stellar and Galactic Astrophysics: PHYSICS 160, PHYSICS 260 (Win)
- The Origin and Development of the Cosmos: PHYSICS 16 (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Bahrudin Trbalic

Doctoral Dissertation Advisor (AC)

Maya Beleznay, Jack Dinsmore

Doctoral (Program)

Maya Beleznay, Brianna Cantrall, Myrto Falalaki, Hannah Magoon, Karna Morey, Layla Mravac, George Ploumis, Pamela Stark, Surya Tallavarjula, Luke Xia, Sam Young

Publications

PUBLICATIONS

- **The Bow Shock and Kinematics of PSR J1959+2048** *ASTROPHYSICAL JOURNAL*
  Romani, R. W., Deller, A., Guillemot, L., Ding, H., de Vries, M., Parker, C., Zavala, R. T., Chalumeau, A., Cognard, I.
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- **Testing High-energy Emission Models for Blazars with X-Ray Polarimetry** *ASTROPHYSICAL JOURNAL*
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- **Toward Optimal Signal Extraction for Imaging X-Ray Polarimetry** *ASTROPHYSICAL JOURNAL*
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- **A polarized view of the hot and violent universe** *EXPERIMENTAL ASTRONOMY*
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  2021

- **PSR J1810+1744: Companion Darkening and a Precise High Neutron Star Mass** *ASTROPHYSICAL JOURNAL LETTERS*
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- **PSR J1709-4429's Proper Motion and Its Relationship to SNR G343.1-2.3** *ASTROPHYSICAL JOURNAL*
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- **The Imaging X-ray Polarimetry Explorer (IXPE): technical overview III**
  Soffitta, P., Attina, P., Baldini, L., Barbanera, M., Baumgartner, W. H., Bellazzini, R., Bladt, J., Bongiorno, S. D., Brez, A., Castellano, S., Carpentiero, R., Castronuovo, M., Cavalli, et al
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- **The Imaging X-Ray Polarimetry Explorer (IXPE): Technical Overview IV**
  Ramsey, B. D., Attina, P., Baldini, L., Barbanera, M., Baumgartner, W. H., Bellazzini, R., Bladt, J., Bongiorno, S. D., Brez, A., Castellano, S., Carpentiero, R., Castronuovo, M., Cavalli, et al
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- **X-Ray Constraints on the Spectral Energy Distribution of the z=5.18 Blazar SDSS J013127.34-032100.1** *ASTROPHYSICAL JOURNAL*
  An, H., Romani, R. W.
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- **Heated Poles on the Companion of Redback PSR J2339-0533** *ASTROPHYSICAL JOURNAL*
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- **Atmospheric Circulation on Black Widow Companions** *ASTROPHYSICAL JOURNAL*
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- **The Polarization Behavior of Relativistic Synchrotron Self-Compton Jets** *ASTROPHYSICAL JOURNAL*
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- **Multiband Optical Light Curves of Black-widow Pulsars** *ASTROPHYSICAL JOURNAL*
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- **Prospects for Detecting X-Ray Polarization in Blazar Jets** *ASTROPHYSICAL JOURNAL*
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- **The Synchrotron Emission Pattern of Intrabinary Shocks** *ASTROPHYSICAL JOURNAL*
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- **Signatures of Intra-binary Shock Emission in the Black Widow Pulsar Binary PSR J2241-5236** *ASTROPHYSICAL JOURNAL LETTERS*
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- **PSR J1301+0833: A KINEMATIC STUDY OF A BLACK-WIDOW PULSAR** *ASTROPHYSICAL JOURNAL*
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- **INTRA-BINARY SHOCK HEATING OF BLACK WIDOW COMPANIONS** *ASTROPHYSICAL JOURNAL*
  Romani, R. W., Sanchez, N.
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- **BINARY BLACK HOLES, GAS SLOSHING, AND COLD FRONTS IN THE X-RAY HALO HOSTING 4C+37.11** *ASTROPHYSICAL JOURNAL*
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  2016; 459 (1): 820-840

- **The Imaging X-ray Polarimetry Explorer (IXPE)** *RESULTS IN PHYSICS*
  Weisskopf, M. C., Ramsey, B., O'Dell, S. L., Tennant, A., Elsner, R., Soffita, P., Bellazzini, R., Costa, E., Kolodziejczak, J., Kaspi, V., Mulieri, F., Marshall, H., Matt, et al
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- **A SPECTROSCOPIC STUDY OF THE EXTREME BLACK WIDOW PSR J1311-3430** *ASTROPHYSICAL JOURNAL*
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- **X-RAY ANALYSIS OF THE PROPER MOTION AND PULSAR WIND NEBULA FOR PSR J1741-2054** *ASTROPHYSICAL JOURNAL*
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- **THE ORIGIN OF THE EXTRAGALACTIC GAMMA-RAY BACKGROUND AND IMPLICATIONS FOR DARK MATTER ANNIHILATION** *ASTROPHYSICAL JOURNAL LETTERS*
  Ajello, M., Gasparrini, D., Sanchez-Conde, M., Zaharijas, G., Gustafsson, M., Cohen-Tanugi, J., Dermer, C. D., Inoue, Y., Hartmann, D., Ackermann, M., Bechtol, K., Franckowiak, A., Reimer, et al
  2015; 800 (2)
- **TEMPORAL CORRELATIONS BETWEEN OPTICAL AND GAMMA-RAY ACTIVITY IN BLAZARS** *ASTROPHYSICAL JOURNAL*
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  2014; 797 (2)
- **Time correlation between the radio and gamma-ray activity in blazars and the production site of the gamma-ray emission** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
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- **2FGL J1653.6-0159: A NEW LOW IN EVAPORATING PULSAR BINARY PERIODS** *ASTROPHYSICAL JOURNAL LETTERS*
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  Stadnik, M., Romani, R. W.
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- **A MULTI-WAVELENGTH STUDY OF THE HOST ENVIRONMENT OF SMBHB 4C+37.11** *ASTROPHYSICAL JOURNAL*
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- **THE COSMIC EVOLUTION OF FERMI BL LACERTAE OBJECTS** *ASTROPHYSICAL JOURNAL*
  Ajello, M., Romani, R. W., Gasparrini, D., Shaw, M. S., BOLMER, J., Cotter, G., Finke, J., Greiner, J., Healey, S. E., King, O., Max-Moerbeck, W., Michelson, P. F., Potter, et al
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Johnson, T. J., Guillemot, L., Kerr, M., Cognard, I., Ray, P. S., Wolff, M. T., Begin, S., Janssen, G. H., Romani, R. W., Venter, C., Grove, J. E., Freire, P. C., Wood, et al

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- **CHANDRA, KECK, AND VLA OBSERVATIONS OF THE CRAB NEBULA DURING THE 2011-APRIL GAMMA-RAY FLARE** *ASTROPHYSICAL JOURNAL*

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- **SPECTROSCOPY OF THE LARGEST EVER gamma-RAY-SELECTED BL LAC SAMPLE** *ASTROPHYSICAL JOURNAL*

  Shaw, M. S., Romani, R. W., Cotter, G., Healey, S. E., Michelson, P. F., Readhead, A. C., Richards, J. L., Max-Moerbeck, W., King, O. G., Potter, W. J.

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