JOHN MICHAEL BLONDIN

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EDUCATION

Ph.D.	University of Chicago	1987	Astronomy and Astrophysics
M.S.	University of Chicago	1984	Astronomy and Astrophysics
B.A.	University of Wisconsin	1982	Physics

EMPLOYMENT

North Carolina State University	2002 - present	Professor of Physics
North Carolina State University	1997 - 2002	Associate Professor of Physics
North Carolina State University	1993 - 1997	Assistant Professor of Physics
University of North Carolina	1991 - 1992	Research Associate
University of Virginia	1989 - 1991	Research Associate
Goddard Space Flight Center	1987 - 1989	NAS/NRC Research Associate

PROFESSIONAL AFFILIATIONS

International Astronomical Union
American Astronomical Society (and High Energy Astrophysics Division)
American Physical Society (and Astrophysics Division)
Sigma Xi
North Carolina Section section of the American Association of Physics Teachers

AWARDS

2000 NCSU Alumni Outstanding Teacher Award

1997 NSF CAREER Award

1996 Cottrell Scholar Award

1995 Research Award, NCSU Chapter of Sigma Xi

1992 Research Prize, UVA Chapter of Sigma Xi

REFEREED PAPERS:

Blondin, J. M., Mezzacappa, A., & De Marino, C. 2003, ApJ, in press. *Stability of Standing Accretion Shocks, With an Eye Toward Core Collapse Supernovae*

Blondin, J. M., Chevalier, R. A., & Frierson, D. M. 2001, ApJ, 563, 806. *Pulsar Wind Nebulae in Evolved Supernova Remnants*

Blondin, J. M. & Ellison, D. C. 2001, ApJ, 560, 244. *Raleigh-Taylor Instabilities in Young Supernova Remnants Undergoing Efficient Particle Acceleration*

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Boroson, B., Kallman, T. R., Blondin, J. M., & Owen, M. P. 2001, ApJ, 550, 919. *Testing Hydrodynamic Models of LMC X-4 with UV and X-ray Spectra*

Pereyra, N., Kallman, T. R., & Blondin, J. M. 2000, ApJ, 532, 563. *Hydrodynamic Models of Line-Driven Disk Winds II: Adiabatic Winds from Nonisothermal Disks*

Blondin, J. M. 2000, NewA, 5, 53. *Tidally-Driven Transport in Accretion Disks in Close Binary Systems*

Blondin, J. M., & Koerwer, J. F. 1998, NewA, 3, 571. *Instability of Isothermal Stellar Wind Bowshocks*

Blondin, J. M., Wright, E. B., Borkowski, K. J., & Reynolds, S. P. 1998, ApJ, 500. *Transition to the Radiative Phase in Supernovae Remnants*

Layton, J. T., Blondin, J. M., & Owen, M. P. 1998, NewA, 3, 111. *Tidal Mass Transfer in Elliptical-Orbit Binary Stars*

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Borkowski, K. J., Blondin, J. M., & Harrington, J. P. 1997, ApJ, 482, L97. *X-Rays from the Impact of SN 1987A with its Circumstellar Ring*

Borkowski, K. J., Blondin, J. M., & McCray, R. 1997, ApJ, 477, 281. *X-Rays from the Impact of SN 1987A with its Circumstellar Ring*

Pereyra, N., Kallman, T. R., & Blondin, J. M. 1997, ApJ, 477, 368. *Hydrodynamic Models of Line-Driven Accretion Disk Winds*

Borkowski, K. J., Blondin, J. M., & McCray, R. 1997, ApJ, 476, L31. *X-Rays and Ultraviolet Line Emission from Supernova Remnant 1987A*

Blondin, J. M. & Marks, Brian S. 1996, NewA, 1, 235. *Evolution of Cold Shock-Bounded Slabs*

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Borkowski, K. J., Szymkowiak, A. E., Blondin, J. M., & Sarazin, C. L. 1996, ApJ 466, 866. *A Circumstellar Shell Model for the Remnant Cassiopeia A Supernova Remnant*

Dwarkadas, V., Chevalier, R., & Blondin, J. 1996, ApJ, 457, 773. *The Shaping of Planetary Nebulae: Asymmetry in the External Wind*

Strickland, R., & Blondin, J. M. 1995, ApJ, 449, 727. *Numerical Analysis of the Dynamic Stability of Radiative Shocks*

Blondin, J. M., Richards, M. T., & Malinowski, M. L. 1995, ApJ, 445, 939. *Hydrodynamic Simulations of the Mass Transfer in Algol*

Blondin, J. M., & Woo, J. W. 1995, ApJ, 445, 889. *Wind Dynamics in SMC X-1: I. Hydrodynamic Simulation*

Woo, J. W., Clark, G. W., Blondin, J. M., Kallman, T. R., & Nagase, F. 1995, ApJ, 445, 896. *Wind Dynamics in SMC X-1: II.* **Ginga** *and* **Rosat** *Observations*

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Borkowski, K. J., Sarazin, C. L., & Blondin, J. M. 1994, ApJ, 429, 710. *On the X-Ray Spectrum of Kepler's Supernova Remnant*

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Blondin, J. M., & Lufkin, E. 1993, ApJS, 88, 589. *Piecewise Parabolic Method for Curvilinear Coordinates*

Murray, S. D., White, S. D. M., Blondin, J. M., & Lin, D. N. C. 1993, ApJ, 407, 588. *Dynamical Instabilities in Two-Phase Media, and the Minimum Masses of Stellar Systems*

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Stevens, I. R., Blondin, J. M., & Pollock, A. M. T. 1992, ApJ, 386, 265. *Colliding Winds From Early-Type Stars in Binary Systems*

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Blondin, J. M., & Königl, A. 1987, ApJ, 323, 451-455. *Pair-Creation Effects in Accretion-Shock Models of Active Galactic Nuclei*

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