

CURRICULUM VITÆ

Julian H. Krolik

Department of Physics and Astronomy
The Johns Hopkins University
Baltimore, Maryland 21218
telephone: (410)-516-7926 email: jhk@jhu.edu
URL: <http://www.physics.jhu.edu/people/faculty/jhk.html>

Birthdate April 4, 1950

Education

Ph.D. in physics, University of California, Berkeley, 1977

S.B. in mathematics and physics, Massachusetts Institute of Technology, 1971

Employment

July, 1991 –

Professor, Department of Physics and Astronomy, Johns Hopkins University

July, 1986 – June, 1991

Associate Professor, Department of Physics and Astronomy, Johns Hopkins University

September, 1985 – February, 1988

Adjunct Assistant Research Astronomer, Space Telescope Science Institute

July, 1984 – June, 1986

Assistant Professor, Department of Physics and Astronomy, Johns Hopkins University

July, 1981 – June, 1984

Research Associate, Harvard-Smithsonian Center for Astrophysics; and Lecturer, Harvard Department of Astronomy

July, 1979 – June, 1981

Postdoctoral Scientist, Department of Physics, Center for Theoretical Physics, and Center for Space Research, Massachusetts Institute of Technology

September, 1977 – June, 1979

Member, School of Natural Sciences, Institute for Advanced Study, Princeton, N.J.

June, 1975 – September, 1977

Research Assistant, Space Sciences Laboratory, University of California, Berkeley

June, 1975 – August, 1975

Research Assistant, Department of Astronomy, University of California, Berkeley

September, 1971 – June, 1975

Teaching Assistant, Department of Physics, University of California, Berkeley

June, 1971 – August, 1971

Research Assistant, Uhuru Group, American Science and Engineering

Honors

Member, Phi Beta Kappa

Member, Sigma Xi

Visiting Professor of the Collège de France, January, 1984

Winner (for *Active Galactic Nuclei: From the Central Black Hole to the Galactic Environment*) of the 1999 Physics and Astronomy Award from the Professional and Scholarly Publishing Division of the Association of American Publishers

Scientific Advisor to the Winner of the AAAS 2000 Science Journalism Prize for Radio

Raymond and Beverly Sackler Distinguished Visiting Astronomer, Institute of Astronomy, Cambridge University (2003–2004)

Simons Fellow 2018

Publications

Books

Krolik, J.H., *Active Galactic Nuclei: From the Central Black Hole to the Galactic Environment* (Princeton University Press: Princeton NJ) (1999)

Krolik, J.H. and Hawley, J.F., “General Relativistic MHD Jets”, Chapter 10 (pp. 265–287) in *The Jet Paradigm: from Microquasars to Quasars*, T. Belloni, ed., (Springer-Verlag: Berlin) (2010)

Krolik, J.H., “Black Holes, Obscuring Tori, and Emission Line Physics”, Secs. 2.7, 6.1, 6.5, and 6.10 in *Fifty Years of Quasars*, M. D’Onofrio, J. Sulentic, and P. Marziani, eds. (Springer Verlag: Berlin) (2012)

Refereed Journal Articles

1. Krolik, J.H., “Rayleigh-Taylor Modes in Constant Density Incompressible Fluids Accelerated by Radiation Pressure,” *Physics of Fluids* **20**, 364 (1977)
2. Krolik, J.H. and McKee, C.F., “Hydrogen Emission Line Spectra in QSO’s and Active Galactic Nuclei,” *Ap. J. Suppl.* **37**, 459 (1978)
3. Krolik, J.H., “The Radiation Pressure-Driven Rayleigh-Taylor Instability: Analysis and Application to QSO Emission Line Clouds,” *Ap. J.* **228**, 13 (1979)
4. Krolik, J.H. and Kwan, J.Y., “Quasar Image Doubling Associated with Absorption Systems,” *Nature* **281**, 550 (1979)
5. Kwan, J.Y. and Krolik, J.H., “Hydrogen Line and Continuum Emission in Quasars,” *Ap. J. Lett.* **233**, L91 (1979)
6. Bookbinder, J., Cowie, L.L., Krolik, J.H., Ostriker, J.P., and Rees, M.J., “The Contribution of Young Galaxies to thpart of our constraints.e X-Ray Background,” *Ap. J.* **237**, 647 (1980)
7. Krolik, J.H., McKee, C.F., and Tarter, C.B., “Two-Phase Models of Quasar Emission Line Regions,” *Ap. J.* **249**, 422 (1981)
8. Krolik, J.H. and Smith, H.A., “Infrared Atomic Hydrogen Line Formation in Luminous Stars,” *Ap. J.* **249**, 628 (1981)

9. Kwan, J.Y. and Krolik, J.H., “The Formation of Emission Lines in Quasars and Seyfert Galaxies,” *Ap. J.* **250**, 478 (1981)
10. Krolik, J.H. and London, R.A., “Spherical Accretion Onto Quasars,” *Ap. J.* **267**, 18 (1983)
11. Krolik, J.H. and Kallman, T.R., “X-Ray Ionization and the Chemistry of the Orion Molecular Cloud,” *Ap. J.* **267**, 610 (1983)
12. Krolik, J.H., “Main-Sequence Binaries, Contact Binaries, and Blue Stragglers in Globular Clusters,” *Nature* **305**, 506 (1983)
13. Krolik, J.H. and Shapiro, P.R., “Amplified Spontaneous Emission in the 1035 Å Doublet of O⁺⁵,” *J. Phys. B* **16**, 4687 (1983)
14. Krolik, J.H. and Vrtilik, J.M., “The Dynamics of the Narrow-Line Regions of Seyfert Galaxies,” *Ap. J.* **279**, 521 (1984)
15. Petre, R., Mushotzky, R.F., Krolik, J.H., and Holt, S.S., “Soft X-Ray Spectral Observations of High Luminosity Active Galaxies,” *Ap. J.* **280**, 499 (1984)
16. Krolik, J.H., “The Appearance, Number, and History of Highly Compact Binary Systems in Globular Clusters,” *Ap. J.* **282**, 452 (1984)
17. Krolik, J.H., Meiksin, A., and Joss, P.C., “The Evolution of Highly Compact Binary Systems in Globular Clusters,” *Ap. J.* **282**, 466 (1984)
18. Krolik, J.H. and Kallman, T.R., “Soft X-ray Absorption Opacity in Hot and Photoionized Plasmas,” *Ap. J.* **286**, 366 (1984)
19. Krolik, J.H., Kallman, T.R., Fabian, A.C., and Rees, M.J., “OVIII Resonant Absorption in PKS2155-304: A Hot Wind”, *Ap. J.* **295**, 104 (1985)
20. Krolik, J.H. and Raymond, J.C., “Radiation Pressure-Driven Shocks in Stellar Winds,” *Ap. J.* **298**, 660 (1985)
21. Kallman, T.R. and Krolik, J.H., “The Effects of Electron Scattering Opacity in the Broad Emission Line Regions of Quasars”, *Ap. J.* **308**, 805 (1986)
22. Krolik, J.H., and Begelman, M.C., “An X-ray Heated Wind in NGC 1068,” *Ap. J. Lett.* **308**, L55 (1986)
23. Krolik, J.H. and Kallman, T.R., “Fe K Features as Probes of the Intermediate Zone in Seyfert Galaxies,” *Ap. J. Lett.* **320**, L5 (1987)
24. Krolik, J.H. and Kallman, T.R., “The Effects of Thermal Accretion Disk Spectra on the Emission Lines from Active Galactic Nuclei”, *Ap. J.* **324**, 714 (1988)
25. Krolik, J.H., “The Origin of Broad Emission Line Clouds in Active Galactic Nuclei”, *Ap. J.* **325**, 148 (1988)
26. Krolik, J.H. and Begelman, M.C., “Molecular Tori in Seyfert Galaxies: Feeding the Monster and Hiding It”, *Ap. J.* **329**, 702 (1988)
27. Edelson, R. and Krolik, J.H., “The Discrete Correlation Function: A New Method for Analyzing Variability Data”, *Ap. J.* **333**, 646 (1988)
28. Krolik, J.H. and Raymond, J.C., “Measuring H_o and q_o with X-ray Lines from Galaxy Clusters”, *Ap. J. Lett.* **335**, L39 (1988)
29. Krolik, J.H., “The Recombination Epoch Revisited”, *Ap. J.* **338**, 594 (1989)

30. Krolik, J.H. and Lepp, S., “The Physical State of the Obscuring Torus in Seyfert Galaxies”, *Ap. J.* **347**, 179 (1989)
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32. Krolik, J.H., “Further Corrections to the Theory of Cosmological Recombination”, *Ap. J.* **353**, 21 (1990)
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35. Clavel, J., Reichert, G., Alloin, D., Kriss, G.A., Krolik, J.H., Malkan, M., Netzer, H., Peterson, B.M., Wamsteker, W., *et al.*, “Steps Toward Determination of the Size and Structure of the Broad-Line Region in Active Galactic Nuclei. (I) An Eight Month Monitoring Campaign of NGC 5548 with IUE”, *Ap. J.* **366**, 64 (1991)
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38. Krolik, J.H. and Pier, E.A., “Relativistic Motion in γ -Ray Bursts”, *Ap. J.* **373**, 277 (1991)
39. Krolik, J.H., “Multipolar Magnetic Fields in Neutron Stars”, *Ap. J. Lett.* **373**, L69 (1991)
40. Krolik, J.H., “Creation by Stellar Ablation of the Low-Mass Companion to Pulsar PSR 1829-10”, *Nature* **353**, 829 (1991)
41. Krolik, J.H. and Chen, W., “Steep Radio Spectra in High-Redshift Radio Galaxies”, *A.J.* **102**, 1659 (1991)
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100. Hawley, J.F. and Krolik, J.H., “Global MHD Simulation of the Inner Accretion Disk in a Pseudo-Newtonian Potential”, *Ap. J.* **548**, 348 (2001)
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