

BIOGRAPHICAL SKETCH

Q. DANIEL WANG

Present Position

Associate Professor, Department of Astronomy
University of Massachusetts - Amherst

Education

Ph.D., Astronomy, 1990, Columbia University, New York

Awards, Fellowships, and Honors

2006 -, Siyuan Visiting Chair Professorship at Nanjing University
2005, Member of Institute for Advanced Study
1997, First-Class Award for the Science and Technology Advance
from the National Education Committee of P. R. China
1994, Lindheimer Postdoctoral Fellowship
1992, ASP Robert J. Trumpler Award for Outstanding North
American Ph.D Dissertation Research in Astronomy
1990-1993, Hubble Postdoctoral Fellowship
1990, Harvard-Smithsonian Center for Astrophysics Fellowship (declined)
1990, Canadian Institute for Theoretical Astrophysics
Fellowship (declined)
1985, Nanjing University "New Star" Award

Recent Invited Talks (2005-)

Workshop on "X-rays from Nearby Galaxies", Madrid, Spain, 2007
Workshop on "X-ray Grating Spectroscopy", Cambridge, MA, 2007
Visualization Seminar, Harvard/Smithsonian Astrophysical Observatory Center for Astrophysics, 2007
University of Georgia - Athens, 2006
University of Colorado - Boulder, 2006
American Astronomical Society High-energy Astrophysics Division Meeting, San Francisco, 2006.
California Institute of Technology, 2006.
Conference "Chemodynamics from first stars to local galaxies", Lyon, France, 2006.
Tsinghua University, Beijing, China, 2006.
Purple Mountain Observatory, China, 2006.
Nanjing University, China, 2006.
Shanghai Astronomical Observatory, China, 2006.
American Astronomical Society Summer Meeting, Topic Session "Warm-Hot Gas in and around Galaxies", Calgary, 2006.
Galactic Center Workshop, Bad Honnef, Germany, 2006.
Institute for Advanced Study, Princeton, 2005.
University of Wisconsin - Madison, 2005.

Recent Publications (2005-)

- [99] "Chandra Detection of Diffuse Hot Gas in and around the M 31 Bulge"
Li, Zhiyuan & Wang, Q. D. 2007, ApJL, 668, 39
- [98] "Searching for the Large Scale Galactic Hot Gaseous Halo in Absorption"
Yao, Y., Nowak, M. A., Wang, Q. D., Schulz, N. S., & Canizares, C. R. 2007, ApJL, in press
- [97] "Radio and X-ray Images of the SNR G18.8.+0.3 Interacting with Molecular Clouds"
Tian, W. W., Leahy, D. A., & Wang, Q. D. 2007, A&A, 474, 541
- [96] "Chandra View of DA 530: A Subenergetic Supernova Remnant with a Pulsar Wind Nebula?"
Jiang, B., Chen, Y. & Wang, Q. D. 2007, ApJ, 670, 1142

- [95] “The Galactic Central Diffuse X-ray Enhancement: A Differential Absorption/emission Analysis”
Yao, Y., & **Wang, Q. D.** 2007, ApJ, 666, 242
- [94] “VLA and XMM-Newton observations of the SNR W41/TeV Gamma-ray source HESS J1834-087”
Tian, W. W., Li, Z.-Y., Leahy, D. A., & **Wang, Q. D.** 2007, ApJL, 657, 25
- [93] “X-ray Timing Observations of PSR J1930+1852 in the Crab-like SNR G54.1+0.3”
Lu, F. J., **Wang, Q. D.**, Gotthelf, E., & Qu, J. 2007, ApJ, 663, 315
- [92] “Chandra and XMM-Newton Detection of Large-scale Diffuse X-ray Emission from the Sombrero Galaxy”
Li, Z.-Y., **Wang, Q. D.**, & Hameed, S. 2007, MNRAS, 376, 960
- [91] “The Non-isothermality and Extent of Galactic Diffuse Hot Gas Toward Mrk 421”
Yao, Y., & **Wang, Q. D.** 2007, ApJ, 653, 121
- [90] “Chandra Detection of Fe XVII in Absorption: Iron Abundance in the Hot Gaseous Interstellar Medium”
Yao, Y., Schulz, N., **Wang, Q. D.**, & Nowak, M. 2006, ApJL, 653, 121
- [89] “Chandra ACIS Spectroscopy of N157B – A Young Composite Supernova Remnant in a Super-bubble”
Chen, Y., **Wang, Q. D.**, Gotthelf, E. V., Jiang, B., Chu, Y.-H., & Gruendl, R. 2006, ApJ, 651, 237
- [88] “Predicting the Starquakes in PSR J0537-6910”
Middleditch, J., Marshall, F. E., **Wang, Q. D.**, Gotthelf, E. V., & Zhang, W. 2006, ApJ, 652, 1531
- [87] “Non-Equilibrium Ionization Model for Stellar Cluster Winds and its Application”
Ji, L., **Wang, Q. D.**, & Kwan, J. 2006, MNRAS, 372, 497
- [86] “A Chandra Catalog of X-Ray Sources in the Central 150 pc of the Galaxy”
Muno, M. P., Bauer, F. E., Bandyopadhyay, R. M., & **Wang, Q. D.** 2006, ApJS, 165, 173
- [85] “An XMM-Newton observation of the massive edge-on Sb galaxy NGC 2613”
Li, Z., **Wang, Q. D.**, Irwin, J. A., & Chaves, T. 2006, MNRAS, 371, 147
- [84] “The Interplay between Star Formation and the Nuclear Environment of our Galaxy: Deep X-ray Observations of the Galactic Center Arches and Quintuplet Clusters”
Wang, Q. D., Dong, H., & Lang, C. C. 2006, MNRAS, 371, 38
- [83] “G359.95-0.04: Pulsar Candidate Near Sgr A*”
Wang, Q. D., Lu, F. J., & Gotthelf, E. 2006, MNRAS, 367, 937
- [82] “X-ray Absorption Spectroscopy of the Multi-phase Interstellar Medium: Oxygen and Neon Abundances”
Yao, Y.-S., & **Wang, Q. D.** 2006, ApJ, 641, 930
- [81] “The XMM-Newton/Chandra monitoring campaign on the Galactic center region: Description of the program and preliminary results”
with Wijnands, R., et al. 2006, A&A, 449, 1117
- [80] “An Optical Study and Interstellar Environments of Seven Luminous and Ultraluminous X-ray Sources”
with Ramsey, C. L., et al. 2006, ApJ, 641, 241
- [79] “An Infrared Imaging Survey of the Faint Chandra Sources near the Galactic Centre”
with Bandyopadhyay, R.M., et al. 2005, MNRAS, 364, 1195
- [78] “An XMM-Newton and Chandra Study of the Starburst Galaxy IC 10”
Wang, Q. D., Whitaker, K. E., & Williams, R. 2005, MNRAS, 362, 1065
- [77] “Probing the Local Group Medium toward Mkn 421 with *Chandra* and *FUSE*”

- With Williams, R. et al., 2005, ApJ, 631, 856
- [76] “Supernova Blastwaves in Low-density Hot Media: a Mechanism for Spatially Distributed Heating”
Tang, S. & **Wang, Q. D.** 2005, ApJ, 628, 205
- [75] “Diffuse X-rays from the Arches and Quintuplet clusters”
Rockefeller, G., Fryer, C. L., Melia, F., & **Wang, Q. D.** 2005, ApJ, 623, 171
- [74] “X-ray Absorption Line Spectroscopy of the Galactic Hot Interstellar Medium”
Yao, Y.-S., & **Wang, Q. D.** 2005, ApJ, 624, 751
- [73] “Warm-Hot Gas in and around the Milky Way: Detection and Implications of OVII Absorption toward LMC X-3”
Wang, Q. D., et al. 2005, ApJ, 635, 386
- [72] “A Deep Radio Survey of Abell 2125. III. The Cluster Core: Merging and Stripping”
Owen, F. N., Keel, W. C., **Wang, Q. D.**, Ledlow, M. J., & Morrison, G. E. 2006, AJ, 131, 1974
- [71] “Black Hole X-ray Binaries LMC X-1 and LMC X-3: Observations Confront Spectral Models”
Yao, Y., **Wang, Q. D.**, Zhang, S. N. 2005, MNRAS, 362, 229
- [70] “A Deep Radio Survey of Abell 2125 II: Accelerated Galaxy Evolution during a Cluster-Cluster Merger”
Owen, F. N., Ledlow, M. J., Keel, W. C., **Wang, Q. D.**, & Morrison, G. E. 2005, ApJ, 129, 31