

Curriculum Vitae (short version 20090405)

CHANG LIU

Education

Ph. D., Applied Physics, New Jersey Institute of Technology, Newark, New Jersey, 2007

M. S., Physics, Rutgers University–New Brunswick, New Jersey, 2002

B. S., Physics, Nanjing University, China, 2000

Dissertation and Postdoc Advisors

Wang, Haimin, Distinguished Professor of Physics, NJIT

Gary, Dale E., Chair and Professor of Physics, NJIT

Professional Experience

07/2009–present: *Research Professor*, Space Weather Research Lab, Center for Solar-Terrestrial Research, New Jersey Institute of Technology, Newark, New Jersey

01/2009–06/2009: *Postdoctoral Researcher*, Space Weather Research Lab, Center for Solar-Terrestrial Research, New Jersey Institute of Technology, Newark, New Jersey

2007–2008: *Postdoctoral Researcher*, Big Bear Solar Observatory, New Jersey Institute of Technology, Big Bear City, California

2003–2006: *Research Assistant*, Center for Solar-Terrestrial Research, New Jersey Institute of Technology, Newark, New Jersey

2000–2002: *Teaching Assistant*, Rutgers University–New Brunswick, New Jersey

Honors and Awards

2006: Studentship Award, American Astronomical Society, Solar Physics Division

2006: First Prize of Graduate Division, Second Annual Provost's Student Research Showcase, New Jersey Institute of Technology

2004: Brueckner Studentship Award, American Astronomical Society, Solar Physics Division

2000: Outstanding Graduate of Nanjing University, China

1997–1999: Physics Department RenMin Scholarship for Outstanding Students, Nanjing University, China

Affiliations

2005–present: Member of the American Geophysical Union (AGU)

2004–present: Member of the American Astronomical Society (AAS)

2004–present: Member of the AAS/Solar Physics Division (SPD)

Publications in Refereed Journals (*h-index*=10)

Liu, C. & Wang, H., 2009, *Reconnection Electric Field and Hardness of X-ray Emission of Solar Flares*, The Astrophysical Journal Letters, in press

Liu, C., Lee, J., Jing, J., Gary, D. E., & Wang, H., 2008, *The Spatial Distribution of Hard X-ray Spectral Index and Local magnetic Reconnection Rate*, The Astrophysical Journal Letters, 672, L69-L72

Liu, C., Lee, J., Yurchyshyn, V., Deng, N., Cho, K., Karlický, M., & Wang, H. 2007, *The Eruption from a Sigmoid Active Region on 2005 May 13*, The Astrophysical Journal, 669, 1372-1381

- Liu, C., Lee, J., Gary, D. E., & Wang, H., 2007, *The Ribbon-Like Hard X-Ray Emission in a Sigmoidal Solar Active Region*, The Astrophysical Journal Letters, 658, L127-L130
- Liu, C., Lee, J., Deng, N., Gary, D. E., & Wang, H., 2006, *Large-Scale Activities Associated with the 2003 October 29 X10 Flare*, The Astrophysical Journal, 642, 1205-1215
- Liu, C., Deng, N., Liu, Y., Falconer, D., Goode, P. R., Denker, C., & Wang, H., 2005, *Rapid Change of δ Spot Structure Associated with Seven Major Flares*, The Astrophysical Journal, 622, 722-736
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- Deng, N., Liu, C., Yang, G., Wang, H., & Denker, C. 2005, *Rapid Penumbra Decay Associated with an X2.3 Flare in NOAA Active Region 9026*, The Astrophysical Journal, 623, 1195-1201
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- Wang, H., Liu, C., Qiu, J., Deng, N., Goode, P. R., & Denker, C. 2004, *Rapid Penumbra Decay Following Three X-Class Flares*, The Astrophysical Journal Letters, 601, L195-L198
- Ji, H., Wang, H., Liu, C., & Dennis, B. R. 2008, *A Hard X-Ray Sigmoidal Structure during the Initial Phase of the 2003 October 29 X10 Flare*, The Astrophysical Journal, 680, 734-739
- Jing, J., Lee, J., Liu, C., Gary, D. E., & Wang, H. 2007, *Hard X-Ray Intensity Distribution Along H α Ribbons*, The Astrophysical Journal Letters, 664, L127-L130
- Liu, Y., Kurokawa, H., Liu, C., Brooks, D. H., Dun, J., Ishii, T. T., & Zhang, H. 2007, *The X10 Flare on 29 October 2003: Was It Triggered by Magnetic Reconnection between Counter-Helical Fluxes?*, Solar Physics, 240, 253-262
- Xu, Y., Cao, W., Liu, C., Yang, G., Jing, J., Denker, C., Emslie, A. G., & Wang, H. 2006, *High-Resolution Observations of Multiwavelength Emissions during Two X-Class White-Light Flares*, The Astrophysical Journal, 641, 1210-1216
- Xu, Y., Cao, W., Liu, C., Yang, G., Qiu, J., Jing, J., Denker, C., & Wang, H. 2004, *Near-Infrared Observations at 1.56 Microns of the 2003 October 29 X10 White-Light Flare*, The Astrophysical Journal Letters, 607, L131-L134
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- Wang, H., Ji, H., Schmahl, E. J., Qiu, J., Liu, C., & Deng, N. 2002, *Sudden Disappearance of a Small Sunspot Associated with the 2002 February 20 M2.4 Flare*, The Astrophysical Journal Letters, 580, L177-L180