

# Kazunori Ishibashi

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## Contact Information

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## Educational Background

- Ph.D. in Astrophysics, University of Minnesota, Twin Cities, MN, 1999
- M.S. in Astrophysics, University of Minnesota, Twin Cities, MN, 1998
- B.S. in Astrophysics, University of Oklahoma, Norman, OK, 1994

## Appointments

- Feb.2009 to present: *CGOE* designated associate professor, Nagoya University
- Feb.2007 to Jan.2009: *Hinode/XRT* Research Scientist at NorthWest Research Associates Inc., Colorado Research Associates Division
- Nov.2001 to Dec.2006: *Chandra/HETGS* Research Scientist at Massachusetts Institute of Technology
- Jan.2000 to Oct.2001: National Research Council fellow at GSFC, NASA

## Award

- Jan.2000: National Research Council fellowship, National Academy of Science

## Synergistic Activities

- Apr.2010~: Astro-H working group member
- Mar.2009~: Solar-C/NGXT sub-working group member
- Oct.2008: *Hinode* 2 International Conference LOC
- Jun.2007: *Chandra* Cycle 9 Peer Review
- Jun.2006: *Chandra* Cycle 8 Peer Review

## Current Research Activities

- Multi-wavelength studies of the super-massive star Eta Carinae
- Hot diffuse plasma ( $T \sim 10$  MK) in the quiet Sun region examined with the *Hinode*

## Recently Approved Research Proposals/Grants

- *Jan. 2009:* Co-I. for *HST GO program* Cycle 17  
Program: Eta Carinae's continuing instability and recovery – the 2009 Event
- *Jan. 2009:* Co-I. for *Chandra X-ray Observatory* Cycle 10  
Program: Testing Shock Dynamics in Eta Carinae with HETGS After the 2009 Periastron Passage (160ksec) and X-ray Monitoring of Eta Car in 2009: Unveiling the Deep X-ray Minimum (70ksec)
- *Apr. 2006:* Co-I. for *Chandra X-ray Observatory* Cycle 7  
Program: High resolution energy grating observation of DX Cha (150ksec)
- *July 2003 to June 2005:* Co-I for *HST Treasury Program*, Grant Received: \$31,184  
Program: The monitoring of  $\eta$  Carinae with the *HST*/STIS, WFPC, and ACS instruments through its predicted anomalous phase

## Society Membership

- American Astronomical Society (Full member; HEAD, SPD)
- Japanese Astronomical Society (Full member)

## References

Available upon request.

## List of Selected Publications

- **Ishibashi, K.**, Dewey, D., Huenemoerder, D. P., & Testa, P. “*Chandra*/HETG observations of the Capella System: the Primary as a Dominating X-ray Source”, *ApJ*, **644**, L117, 2006
- Martin, J. C., Davidson, K., Humphreys, R. M., Hillier, D. J., & **Ishibashi, K.** “On the He II Emission in  $\eta$  Carinae and the Origin of Its Spectroscopic Events”, *ApJ*, **640**, 474, 2006
- **Ishibashi, K.**, Gull, T. R., Davidson, K., *et al.* “Discovery of a Little Homunculus within the Homunculus Nebula of Eta Carinae”, *AJ*, **125**, 3222, 2003
- Smith, N., Davidson, K., Gull, T. R., **Ishibashi, K.**, & Hillier, D. J. “Latitude-dependent Effects in the Stellar Wind of Eta Carinae”, *ApJ*, **586**, 432, 2003
- **Ishibashi, K.** “Searching for Physically Acceptable Parameters for  $\eta$  Carinae’s Companion” in the ASP proceedings “Eta Carinae and Other Mysterious Stars”, **242**, 53, 2001, eds. T. R. Gull, S. Johansson, & K. Davidson
- Davidson, K., Smith, N., Gull, T. R., K., **Ishibashi, K.**, & Hillier, D. J. “The Shape and Orientation of the Homunculus Nebula Based on Spectroscopic Velocities”, *AJ*, **121**, 1569, 2001
- Davidson, K., **Ishibashi, K.**, Gull, T.R., Humphreys, R.M., & Smith, N. “Eta Carinae: Testing a Binary Orbit Model with the HST/Space Telescope Imaging Spectrograph”, *ApJ*, **530**, 107L, 2000
- Johansson, S., Zethson, T., Hartman, H., Ekberg, J.O., **Ishibashi, K.**, Davidson, K., & Gull, T.R. “New forbidden and fluorescent Fe III lines identified in HST spectra of  $\eta$  Carinae”, *A&A*, **361**, 977, 2000
- **Ishibashi, K.**, Corcoran, M.F., Davidson, K., *et al.* “Recurrent X-ray Emission Variations of  $\eta$  Carinae and the Binary Hypothesis”, *ApJ*, **524**, 983, 1999
- **Ishibashi, K.**, Davidson, K., Corcoran, M.F., Swank, J.H., Petre, R., & Jahoda, K. “eta Carinae”, IAUC.6668, 1, 1997
- Corcoran, M.F., **Ishibashi, K.**, Swank, J. H., Davidson, K., Petre, R., & Schmitt, J. H. M. M. “Increasing X-ray emissions and periodic outbursts from the massive star  $\eta$  Carinae”, *Nature*, **390**, 587, 1997