

Curriculum Vitae

Kevin L. Luhman

Education

August 1998 PhD in Astronomy, University of Arizona
May 1993 B. A. in Astronomy, University of Texas at Austin
May 1993 B. S. in Physics, University of Texas at Austin

Employment

2011- Associate Professor, The Pennsylvania State University
2005-2011 Assistant Professor, The Pennsylvania State University
2002-2005 Astrophysicist, Smithsonian Astrophysical Observatory
1998-2002 CfA Fellow, Harvard-Smithsonian Center for Astrophysics
1995-1998 Research Assistant, University of Arizona
1993-1995 Teaching Assistant, University of Arizona

Committees and Review Panels

2012- NOAO Users Committee
2011 Gemini GPI Campaign Allocation Committee
2011 NSF Division of Astronomical Sciences Review Panel (twice)
2010-2012 NASA IRTF Telescope Allocation Committee
2010 NSF CAREER Review Panel
2010-2011 ESA Herschel Observing Time Allocation Committee
2010 NSF Division of Astronomical Sciences Review Panel
2010 NASA Hubble Space Telescope Review Panel
2010 NASA Hubble Fellowship Selection Committee
2009 NSF CAREER Review Panel
2009 NSF Division of Astronomical Sciences Review Panel
2009-2011 US Gemini Science Advisory Committee
2008 NSF Division of Astronomical Sciences Review Panel
2006 NSF Division of Astronomical Sciences Review Panel
2006 NSF AURA Management Review Panel
2005-2007 NOAO Telescope Allocation Committee
2005 NASA Hubble Space Telescope Review Panel
2005 NASA Spitzer Space Telescope Review Panel
2001-2004 NASA IRTF Telescope Allocation Committee
2000-2002 NASA Origins of the Solar System Review Panel

Refereed Publications

83. **Luhman, K. L.**

2012, Annual Reviews of Astronomy and Astrophysics, in press
The Formation and Early Evolution of Low-mass Stars and Brown Dwarfs

82. **Luhman, K. L.**, Burgasser, A. J., Labbé, I., Saumon, D., Marley, M. S., Bochanski, J. J., Monson, A. J., & Persson, S. E.

2012, Astrophysical Journal, 744, 135 (8pp)
Confirmation of One of the Coldest Known Brown Dwarfs

81. Carson, J. C., Marengo, M., Patten, B. M., **Luhman, K. L.**, Sonnett, S. M., Hora, J. L., Schuster, M. T., Allen, P. R., Fazio, G. G., Stauffer, J. R., Schnupp, C.

2011, Astrophysical Journal, 743, 141 (9pp)
A Spitzer IRAC Imaging Survey for T Dwarf Companions around M, L, and T Dwarfs: Observations, Results, and Monte Carlo Population Analyses

80. Loutrel, N. P., **Luhman, K. L.**, Lowrance, P. J., & Bochanski, J. J.

2011, Astrophysical Journal, 739, 81 (6pp)
Discovery of a Companion at the L/T Transition with the Wide-field Infrared Survey Explorer

79. Furlan, E., **Luhman, K. L.**, Espaillat, C., D'Alessio, P., Adame, L., Manoj, P., Kim K. H., Watson, D. M., Forrest, W. J., McClure, M. K., Calvet, N., Sargent, B. A., Green, J. D., & Fischer, W. J.

2011, Astrophysical Journal Supplement Series, 195, 3 (45pp)
The Spitzer Infrared Spectrograph Survey of T Tauri Stars in Taurus

78. **Luhman, K. L.**, Burgasser, A. J., & Bochanski, J. J.

2011, Astrophysical Journal, 730, L9 (4pp)
Discovery of a Candidate for the Coolest Known Brown Dwarf

77. Manoj, P., Kim, K. H., Furlan, E., McClure, M. K., **Luhman, K. L.**, Watson, D. M., Espaillat, C., Calvet, N., Najita, J. R., D'Alessio, P., Adame, L., Sargent, B. A., Forrest, W. J., Bohac, C., Green, J. D., & Arnold, L. A.

2011, Astrophysical Journal, 193, 11 (32pp)
Spitzer Infrared Spectrograph Survey of Young Stars in the Chamaeleon I Star-forming Region

76. Adame, L., Calvet, N., **Luhman, K. L.**, D'Alessio, P., Furlan, E., McClure, M. K., Hartmann, L., Forrest, W. J., & Watson, D. M.

2011, Astrophysical Journal, 726, L3 (4pp)
Spitzer Spectroscopy of the Circumprimary Disk in the Binary Brown Dwarf 2MASS J04414489+2301513

75. Hernández, J., Morales-Calderon, M., Calvet, N., Hartmann, L., Muzerolle, J.,

- Luhman, K. L.**, & Stauffer, J.
2010, *Astrophysical Journal*, 722, 1226-1239
Spitzer Observations of the Lambda Orionis Cluster. II. Disks around Solar-type and Low-mass Stars
74. Espaillat, C., D'Alessio, P., Hernandez, J., Nagel, E., **Luhman, K. L.**, Watson, D. M., Calvet, N., Muzerolle, J., & McClure, M.
2010, *Astrophysical Journal*, 717, 441-457
Unveiling the Structure of Pre-Transitional Disks
73. **Luhman, K. L.** & Mamajek, E. E.
2010, *Astrophysical Journal*, 716, L120-L124
Spectroscopy of Putative Brown Dwarfs in Taurus
72. McClure, M., Furlan, E., Manoj, P., **Luhman, K. L.**, Watson, D. M., Forrest, W. J., Espaillat, C., Calvet, N., D'Alessio, P., Sargent, B., Tobin, J. J., Hsin-Fang, C.
2010, *Astrophysical Journal Supplement Series*, 188, 75-122
The Evolutionary State of the Pre-main Sequence Population in Ophiuchus: A Large Infrared Spectrograph Survey
71. Todorov, K., **Luhman, K. L.**, & McLeod, K. K.
2010, *Astrophysical Journal*, 714, L84-L88
Discovery of a Planetary-mass Companion to a Brown Dwarf in Taurus
70. **Luhman, K. L.**, Allen, P. R., Espaillat, C., Hartmann, L., & Calvet, N.
2010, *Astrophysical Journal Supplement Series*, 186, 111-174
The Disk Population of the Taurus Star-Forming Region
69. **Luhman, K. L.**, Mamajek, E. E., Allen, P. R., & Cruz, K. L.
2009, *Astrophysical Journal*, 703, 399-419
An Infrared/X-Ray Survey for New Members of the Taurus Star-Forming Region
68. Kim, K. H., Watson, D. M., Manoj, P., Furlan, E., Najita, J., Forrest, W. J., Sargent, B., Espaillat, C., Calvet, N., **Luhman, K. L.**, McClure, M. K., Green, J. D., & Harrold, S.
2009, *Astrophysical Journal*, 700, 1017-1025
Mid-Infrared Spectra of Transitional Disks in the Chamaeleon I Cloud
67. Teixeira, P. S., Lada, C. J., Wood, K., Robitaille, T. P., & **Luhman, K. L.**
2009, *Astrophysical Journal*, 700, 454-459
IRS Characterization of a Debris Disk around an M-type Star in NGC 2547
66. Getman, K. V., Feigelson, E. D., **Luhman, K. L.**, Sicilia-Aguilar, A., Wang, J., & Garmire, G. P.
2009, *Astrophysical Journal*, 699, 1454-1472
Protoplanetary Disk Evolution around the Triggered Star Forming Region Cepheus B

65. Pascucci, I., Apai, D., **Luhman, K. L.**, Henning, T., Bouwman, J., Meyer, M., Lahuis, F., & Natta, A.
2009, *Astrophysical Journal*, 696, 143-159
The Different Evolution of Gas and Dust in Disks around Sun-Like and Cool Stars
64. **Luhman, K. L.**, Mamajek, E. E., Allen, P. R., Muench, A. A., & Finkbeiner, D. P.
2009, *Astrophysical Journal*, 691, 1265-1275
Discovery of a Wide Binary Brown Dwarf Born in Isolation
63. **Luhman, K. L.**, Hernández, J., Downes, J. J., Hartmann, L., & Briceño, C.
2008, *Astrophysical Journal*, 688, 362-376
Disks around Brown Dwarfs in the σ Orionis Cluster
62. Peterson, D. E., Megeath, S. T., **Luhman, K. L.**, Pipher, J. L., Stauffer, J. R., Barrado y Navascués, D., Wilson, J. C., Skrutskie, M. F., Nelson, M. J., & Smith, J. D.
2008, *Astrophysical Journal*, 685, 313-332
New Young Brown Dwarfs in the Orion Molecular Cloud 2/3 Region
61. **Luhman, K. L.** & Muench, A. A.
2008, *Astrophysical Journal*, 684, 654-662
New Low-Mass Stars and Brown Dwarfs with Disks in the Chamaeleon I Star-Forming Region
60. McClure, M. K., Forrest, W. J., Watson, D. M., Furlan, E., Manoj, P., **Luhman, K. L.**, Calvet, N., Espaillat, C., D'Alessio, P., Hartmann, L., Tayrien, C., & Harrold, S. T.
2008, *Astrophysical Journal*, 683, L187-L190
A Sub-AU Outwardly Truncated Accretion Disk around a Classical T Tauri Star
59. Leggett, S. K., Saumon, D., Albert, L., Cushing, M. C., Liu, M. C., **Luhman, K. L.**, Marley, M. S., Kirkpatrick, J. D., Roellig, T. L., & Allers, K. N.
2008, *Astrophysical Journal*, 682, 1256-1263
HN Peg B: A Test of Models of the L to T Dwarf Transition
58. Espaillat, C., Calvet, N., **Luhman, K. L.**, Muzerolle, J., & D'Alessio, P.
2008, *Astrophysical Journal*, 682, L125-L128
Confirmation of a Gapped Primordial Disk around LkCa 15
57. Morrow, A. L., **Luhman, K. L.**, Espaillat, C., D'Alessio, P., Adame, L., Calvet, N., Forrest, W. J., Sargent, B., Hartmann, L., Watson, D. M., & Bohac, C. J.
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Spitzer IRS Observations of Disks around Brown Dwarfs in the TW Hydra Association
56. **Luhman, K. L.**, Allen, L. E., Allen, P. R., Gutermuth, R. A., Hartmann, L., Megeath, S. T., Myers, P. C., & Fazio, G. G.
2008, *Astrophysical Journal*, 675, 1375-1406
The Disk Population of the Chamaeleon I Star-Forming Region

55. **Luhman, K. L.**

2007, *Astrophysical Journal Supplement Series*, 173, 104-136
The Stellar Population of the Chamaeleon I Star-Forming Region

54. **Luhman, K. L.**, Adame, L., D'Alessio, P., Calvet, N., McLeod, K. K., Bohac, C. J., Forrest, W. J., Hartmann, L., Sargent, B., & Watson, D. M.
2007, *Astrophysical Journal*, 666, 1219-1225
Hubble and Spitzer Observations of an Edge-on Circumstellar Disk around a Brown Dwarf

53. Muench, A. A., Lada, C. J., **Luhman, K. L.**, Muzerolle, J., & Young, E.
2007, *Astronomical Journal*, 134, 411-444
A Spitzer Census of the IC 348 Nebula

52. **Luhman, K. L.**, Allers, K. N., Jaffe, D. T., Cushing, M. C., Williams, K. A., Slesnick, C. L., & Vacca, W. D.
2007, *Astrophysical Journal*, 659, 1629-1636
Oph 1622-2405: Not a Planetary-Mass Binary

51. Allers, K. N., Jaffe, D. T., **Luhman, K. L.**, Wilson, J. C., Skrutskie, M. J. Nelson, J. D. Smith, D. E. Peterson, & M. C. Cushing
2007, *Astrophysical Journal*, 657, 511-520
Characterizing Young Brown Dwarfs using Low Resolution Near-Infrared Spectra

50. Allen, P. R., **Luhman, K. L.**, Myers, P. C., Megeath, S. T., Allen, L. E., Hartmann, L., & Fazio, G. G.
2007, *Astrophysical Journal*, 655, 1095-1102
New Low-Mass Stars and Brown Dwarfs with Disks in Lupus

49. **Luhman, K. L.**, Patten, B. M., Marengo, M., Schuster, M. T., Hora, J. L., Ellis, R. G., Stauffer, J. R., Sonnett, S. M., Winston, E., Gutermuth, R. A., Megeath, S. T., Backman, D. E., Henry, T. J., Werner, M. W., & Fazio, G. G.
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Discovery of Two T Dwarf Companions with the Spitzer Space Telescope

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2006, *Astrophysical Journal*, 651, 502-516
Spitzer/IRAC Photometry of M, L, and T Dwarfs

47. Bally, J., Walawender, J., **Luhman, K. L.**, & Fazio, G.
2006, *Astronomical Journal*, 132, 1923-1937
Deep Imaging Surveys of Star-forming Clouds. IV. The Meek and the Mighty: Outflows from Young Stars in Chamaeleon I

46. **Luhman, K. L.**, Wilson, J. C., Brandner, W., Skrutskie, M. F., Nelson, M. J., Smith, J. D., Peterson, E. E., Cushing, M. C., & Young, E.
2006, *Astrophysical Journal*, 649, 894-899
Discovery of a Young Substellar Companion in Chamaeleon
45. **Luhman, K. L.**, Whitney, B. A., Meade, M. R., Babler, B. L., Indebetouw, R., Bracker, S., & Churchwell, E. B.
2006, *Astrophysical Journal*, 647, 1180-1191
A Survey for New Members of Taurus with the Spitzer Space Telescope
44. **Luhman, K. L.**
2006, *Astrophysical Journal*, 645, 676-687
The Spatial Distribution of Brown Dwarfs in Taurus
43. Muzerolle, J., Adame, L., D'Alessio, P., Calvet, N., **Luhman, K. L.**, Muench, A. A., Lada, C. J., Rieke, G. H., Siegler, N., Trilling, D. E., Young, E. T., Allen, L., Hartmann, L., & Megeath, S. T.
2006, *Astrophysical Journal*, 643, 1003-1010
24 μ m Detections of Disks around Very Low-mass Stars and Brown Dwarfs in IC 348: Grain Growth/Settling and Inner Holes?
42. Lada, C. J., Muench, A. A., **Luhman, K. L.**, Allen, L., Hartmann, L., Megeath, T., Myers, P., Fazio, G., Wood, K., Muzerolle, J., Rieke, G., Siegler, N., & Young, E.
2006, *Astronomical Journal*, 131, 1574-1607
Spitzer Observations of IC 348: The Disk Population at 2-3 Million Years
41. **Luhman, K. L.** & Potter, D.
2006, *Astrophysical Journal*, 638, 887-896
AB Dor C and Theoretical Evolutionary Models: Testing the Validity of Each
40. **Luhman, K. L.**, Adame, L., D'Alessio, P., Calvet, N., Hartmann, L., Megeath, S. T., & Fazio, G. G.
2005, *Astrophysical Journal*, 635, L93-L96
Discovery of a Planetary-Mass Brown Dwarf with a Circumstellar Disk
39. Megeath, S. T., Hartmann, L., **Luhman, K. L.**, & Fazio, G. G.
2005, *Astrophysical Journal*, 634, L113-L116
Spitzer/IRAC Photometry of the η Chamaleontis Association
38. **Luhman, K. L.**
2005, *Astrophysical Journal*, 633, L41-L44
Discovery of a Wide Low-mass Binary System in Upper Scorpius
37. **Luhman, K. L.**, Lada, C. J., Hartmann, L., Muench, A. A., Megeath, S. T., Allen, L. E., Myers, P. C., Young, E., & Fazio, G. G.
2005, *Astrophysical Journal*, 631, L69-L72

The Disk Fractions of Brown Dwarfs in IC 348 and Chamaeleon I

36. Hartmann, L., Megeath, S. T., Allen, L. E., **Luhman, K. L.**, Calvet, N., D'Alessio, P., Franco-Hernandez, R., & Fazio, G.

2005, *Astrophysical Journal*, 629, 881-896

IRAC Observations of Taurus Pre-Main Sequence Stars

35. **Luhman, K. L.**, Stauffer, J. R., & Mamajek, E. E.

2005, *Astrophysical Journal*, 628, L69-L72

The Age of AB Doradus

34. Muzerolle, J., **Luhman, K. L.**, Briceno, C., Hartmann, L., & Calvet, N.

2005, *Astrophysical Journal*, 625, 906-912

Measuring Accretion in Young Substellar Objects: Approaching the Planetary Mass Regime

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32. Furlan, E., Calvet, N., D'Alessio, P., Hartmann, L., Forrest, W. J., Watson, D. M.

Luhman, K. L., Uchida, K. I., Green, J. D., Sargent, B., Najita, J., Sloan, G. C., Keller, L. D., & Herter, T. L.

2005, *Astrophysical Journal*, 621, L129-L132

Spitzer IRS Spectra of Young Stars Near the Hydrogen Burning Mass Limit

31. **Luhman, K. L.**, D'Alessio, P., Calvet, N., Allen, L. E., Hartmann, L., Megeath, S. T. Myers, P. C., & Fazio, G. G.

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Spitzer Identification of the Least Massive Known Brown Dwarf with a Circumstellar Disk

30. **Luhman, K. L.**, Lada, E. A., Muench, A. A., & Elston, R. J.

2005, *Astrophysical Journal*, 618, 810-816

FLAMINGOS Spectroscopy of New Low-Mass Members of the Young Cluster IC 348

29. **Luhman, K. L.**

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New Brown Dwarfs and an Updated Initial Mass Function in Taurus

28. **Luhman, K. L.**, Peterson, D. E., & Megeath, S. T.

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27. **Luhman, K. L.**

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A Survey for Low-Mass Stars and Brown Dwarfs in the Eta Cha and Epsilon Cha Young Associations

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24. **Luhman, K. L.**

2004, *Astrophysical Journal*, 602, 816-842
A Census of the Chamaeleon I Star-Forming Region

23. **Luhman, K. L.**, Stauffer, J. R., Muench, A. A., Rieke, G. H., Lada, E. A., Bouvier, J., & Lada, C. J.

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A Census of the Young Cluster IC 348

22. **Luhman, K. L.**, Briceno, C., Stauffer, J. R., Hartmann, L., Barrado y Navascues, D., & Caldwell, N.

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Discovery of an Edge-On Disk in the MBM 12 Young Association

19. **Luhman, K. L.** & Jayawardhana, R.

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18. Hanson, M. M., **Luhman, K. L.**, & Rieke, G. H.

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15. **Luhman, K. L.**
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The Initial Mass Function of Low-Mass Stars and Brown Dwarfs in Young Clusters
12. Stauffer, J. R., Barrado y Navascues, D., Bouvier, J., Morrison, H. L., Harding, P., **Luhman, K. L.**, Terndrup, D., Allen, L., & Assouad, P.
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11. **Luhman, K. L.**
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Young Low-Mass Stars and Brown Dwarfs in IC 348
10. **Luhman, K. L.** & Rieke, G. H.
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9. Hanson, M. M., Rieke, G. H., & **Luhman, K. L.**
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7. **Luhman, K. L.**, Engelbracht, C. W., & Luhman, M. L.
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4. Biscaya, A. M., Rieke, G. H., Narayanan, G., **Luhman, K. L.**, & Young, E.
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1. **Luhman, K. L.** & Rieke, G. H.
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Book Chapters

Luhman, K. L.
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Brown Dwarfs

Luhman, K. L.
2008, *Handbook of Star Forming Regions, Volume 2*, B. Reipurth (ed.), ASP Monograph Series, 169-212
Chamaeleon

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