

Curriculum Vitae

Lee W. Hartmann

Department of Astronomy
University of Michigan
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Leo Goldberg Collegiate Professor

Education

1972 Case Western Reserve University, B.S., Astronomy

1976 University of Wisconsin, Ph.D., Astronomy

Positions

1984-2005 Astrophysicist, Smithsonian Astrophysical Observatory

1984 May, Guest Professor, University of Heidelberg

1989 January, Visiting Scientist, UC-Santa Cruz

1989 May, Visiting Scientist, Max-Planck-Institut für Astronomie, Heidelberg

1996 May, Visiting Scientist, Stockholm Observatory

2005-2011 Professor, Dept. of Astronomy, Univ. of Michigan

2011- Leo Goldberg Collegiate Professor, Dept. of Astronomy, Univ. of Michigan

Award:

2011, Fellow of the American Association for the Advancement of Science

Organizations and Committees (External)

Chair of Science Panel on the Interstellar Medium and Star and Planet Formation, Astro2020
(Astronomy Decadal Survey, National Academy of Sciences), 2019-20

Chair of Science Frontier Panel on Planetary Systems and Star Formation, Astro2010 (Astronomy Decadal Survey, National Academy of Sciences), 2009-10

Member of Committee on Astrophysics and Astronomy (CAA) for the National Academy of Sciences/National Research Council, 2016-2019

Vice-President, American Astronomical Society, 2007-10

Councilor, American Astronomical Society, 2005-07

Member of American Astronomical Society e-books committee, 2015-2019

Chair of Gordon Research Conference on Origins of Solar Systems, 2007

Vice-Chair for Gordon Research Conference on Origins of Solar Systems, 2005

Chair of NOAO Visiting Committee, 2012-13

Member, AURA Decadal Survey Steering Committee, 2007-2008

Member, NOAO Visiting Committee, 2008-2009

NASA Origins of Solar Systems Steering Committee, 1992-95

NASA Origins of Solar Systems Program Review, 1991, 1997, 1998, 2000, 2011

Chair of NASA Keck TAC, 2012-13

Panel chair, NASA Exoplanets program, 2014

Panel chair, NASA ATP, 2014

Panel member, NASA Emerging Worlds program, 2017

Panel member, NASA Exoplanets program, 2017

NASA Panel Chair, Space Telescope Proposal Review, 2015

IRAM Program Committee (TAC), 2015, 2016, 2017, 2018, 2019, 2020

Spitzer Space Telescope Cycle 13 panel review, 2016

Spitzer Space Telescope Director's Discretionary Time review, 2017

Member of panel 13, reviewing the Physics and Astronomy Department of Uppsala University, as part of the "Quality and Renewal 2011; An Overall Evaluation of Research at Uppsala University", May 2011

Design Review Panel for the proposed Near-Infrared Instrument for the Giant Magellan Telescope, Oct. 2011

Giant Magellan Telescope Instrument Development Advisory Panel, Jan.-Feb. 2012

Member of scientific organizing committee for conference on "Multiscale Star Formation", Morelia, Mexico, 2017

Member of Sigma Xi, AAS, IAU, AAAS

Thesis students

1998 PhD, Cesar Briceño, CIDA, Venezuela

2000 PhD, Ray Jayawardhana, Harvard, co-advisor with Giovanni Fazio

2000 PhD James Muzerolle, SAO Predoctoral fellow, UMASS

2005 PhD Aurora Sicilia-Aguilar, SAO Predoctoral fellow, Univ. Madrid;

2011 PhD Zhaohuan Zhu, UM;

2011 PhD John Tobin, UM (co-advisor with E. Bergin);

2013 PhD Wen-Hsin (Tina) Hsu, UM

2017 PhD Jaehan Bae, UM

2017 PhD Marina Kounkel, UM
2020 PhD Aleksandra Kuznetsova, UM

Undergraduate honors students

2018-2019; Kelly Milliner, Shangjia Zhang

Recent Lectures

2016 January, invited review on “Disk evolution and the fate of water”, at The Delivery of Water to Proto-planets, Planets, and Satellites, workshop at the International Space Science Institute, Bern, Switzerland

2016 August, talk on “Mass functions of star clusters (and the upper mass stellar IMF)” and Conference summary at “Star Formation 2016”, University of Exeter

2018 May, talk “Gravity-driven Star Formation”, Munich University Observatory, Germany

2017 February, talk on “FU Ori objects”, KITP program “Confronting MHD Theories of Accretion Disks with Observations”, Santa Barbara

2018 October, talk “Protostellar infall and protoplanetary disk accretion: consequences for disk structure”, Carnegie Dept. of Terrestrial Magnetism, Washington DC

2019 February, colloquium, “Numerical experiments on star formation: mass functions and angular momenta”, Univ. Nevada-Las Vegas

2019 February, colloquium, “Numerical experiments on star formation: mass functions and angular momenta”, Univ. Grenoble, France

2019 March, introduction to session on Disk Substructure, for the meeting “Planet Forming Disks: a Workshop to honor Antonella Natta”, Villa Vignoni, Italy

2019 May, talk “Numerical experiments on star formation: mass functions and angular momenta”, Munich University Observatory, Germany

2019 May, colloquium “Numerical experiments on star formation: mass functions and angular momenta”, Max-Planck-Institute for Astronomy, Heidelberg, Germany

2019 June, talk “Two puzzles of FU Ori Objects”, conference on “Gaia’s view of Pre-Main Sequence Evolution: Linking the T Tauri and Herbig Ae/Be stars”, University of Leeds, UK

2019 June, talk “An appreciation of the career of John Black’s protege, JJ Charfman”, meeting on “John H. Black Symposium on Astrochemistry: From nanometers to megaparsecs”, Chalmers University, Gothenburg, Sweden

2019 November, colloquium on “Numerical experiments on star formation: mass functions and star-forming core properties”, University of Toronto

2020 October, colloquium, "Mass and Angular Momentum Addition in Star Formation", online, University of Pisa, Italy

Internal Responsibilities and Committees, 2005-

Astronomy Awards Committee, 2005-2009
Astronomy Graduate Recruiting/Admissions Committee, 2005-07, 2012, 2017-18
LSA Grievance Review Board, 2006-2007
Astronomy Preliminary Exam Committee, 2007-08, 2011, 2016, 2018, 2020
Astronomy Website "working group", 2007
LSA Advanced Computing Infrastructure Committee, 2007
Department computer committee, 2007-; Chair, 2012; Chair, 2014-
Thesis committees of Jeffrey Fogel, Ming Zhao, Catherine Espaillat, Sarah Ragan, Laura Ingleby, Melissa McClure, Jordan Zastrow, Jeb Bailey, Ilse Cleeves, Anne Jaskot, Francisco Holguin, Kevin Whitely
Member, Center development committee, F11/W12
Curriculum committee, F11
Advanced Research Computing Advisory Team (committee), Chair, W13-F16
Astronomy representative on NextProf Committee, 2015
Advanced Research Computing Advisory Team (committee), W17-19

Grants and Contracts:

8/31/06 - 9/30/08 Spitzer Space Telescope grant, Dust and gas in planet-forming disks (\$24.6K)
8/01/07 - 7/31/09 Space Telescope Science Institute, "A hard look at stellar disks..." (\$31.5K)
1/15/08 - 12/28/08 Herschel Science Center, "A database of turbulent cloud models" (\$30 K)
4/03 - 8/07 NASA Origins of Solar Systems, "Protoplanetary disk evolution from FU Ori to T Tauri" (\$240K)
6/04/08 - 6/30/10 Spitzer Space Telescope, "An Archival Spitzer Study of Protostars" (Co-I) (\$75 K)
9/01/08 - 8/31/11 NSF, "Flow-Driven Molecular Cloud Formation..." (\$300 K)
1/15/08 - 06/30/10 Herschel Science Center, "A database of turbulent cloud models" (\$52 K total)
05/01/08 - 04/30/11 NASA Origins of Solar Systems, "Protoplanetary disk evolution from FU Ori to T Tauri" (\$240K)
11/01/08 - 10/31/10 Space Telescope Science Institute, "NICMOS Imaging of Protostars in the Orion A Cloud", (\$63 K)

06/22/11 - 06/21/14 NASA Origins of Solar Systems, "Theory Confronts Observations: Protoplanetary Disk Evolution and Gap Formation by Planets", (\$291 K)

1/1/16 - 12/31/18 NASA Exoplanets Program, "Initial Distributions of Angular Momenta and Magnetic Flux for Protoplanetary Disks", (\$255K)

1/1/2017 - 1/16/2019 NASA Exoplanets, "Propagating Spiral Waves in Protoplanetary Disks", (\$180K)

Teaching

W/F 2006, 2007, 2008: Astronomy 101/111. F08: A429 (1/3). W09: A535; F09: A530, A429 (1/3). W10, F10: A101. W11: A535. F11: A530, A429 (1/3). W12: A115, A399. SS12: A399. F12: A101. W13: sabbatical F13: A530. W14: A101. F14: A115. W15: A535. F15: A530. W16: A101. F16: A101. W17: A535. F17: A530. W18: A115. F18: A101. F19: A101. W20: A101. F20: A101. W21:A535 F21:A530

Refereeing

I referee about 5-6 papers per year for ApJ/Letters, A&Ap, and MNRAS (combined).

Bibliography

Lee Hartmann

Book

- 1998 Accretion Processes in Star Formation, L. Hartmann, Cambridge University Press.
2009 Accretion Processes in Star Formation, second edition, L. Hartmann, Cambridge University Press.

Journals

References

- 1974 Stellar Molecular Abundances. II: The Violet Depression in Carbon Stars, L. Hartmann and J. F. Dolan, *ApJ*, 187, 151
- 1974 The Absence of Radio Emission from HZ Her, L. Hartmann and A. S. Lapedes, *ApJ*, 190, L67
- 1975 On the Evolution and Composition of Sirius and Procyon, L. Hartmann, L. M. Garrison, and A. Katz, *ApJ*, 199, 127
- 1975 The Subsonic Structure of Radiatively Driven Winds in Early-Type Stars, J. P. Cassinelli and L. Hartmann, *ApJ*, 202, 718
- 1976 Interpretation of the Spectral and Photometric Variations of R Coronae Borealis, L. Hartmann and J. P. Apruzese, *ApJ*, 203, 610
- 1976 Zeeman Observations of the H α Region in BY Draconis, C. M. Anderson, L. Hartmann, and B. W. Bopp, *ApJ*, 204, L51
- 1977 Possible Infalling Gas in the dK5e Star EQ Virginis, L. Hartmann and C. M. Anderson, *ApJ*, 213, L67
- 1977 The Effects of Winds and Coronae of Hot Stars on the Infrared and Radio Continua, J. P. Cassinelli and L. Hartmann, *ApJ*, 213, 488
- 1977 The Structure of the Winds of Wolf-Rayet Stars as Determined from Observations of the Infrared Continua, L. Hartmann and J. P. Cassinelli, *ApJ*, 215, 155
- 1977 Abundances in Late-Type Dwarfs, L. Hartmann and C. M. Anderson, *ApJ*, 215, 188

- 1978 The Infrared Eclipse of V444 Cygni and the Structure of Wolf-Rayet Winds, L. Hartmann, ApJ, 221, 193
- 1978 Nebular Observations and Stellar Coronae, L. Hartmann and J.C. Raymond, ApJ, 222, 541
- 1978 Long Term Variability of dMe Stars, M. J. Phillips and L. Hartmann, ApJ, 224, 182
- 1978 Disk Structure of Early-Type Stellar Envelopes, L. Hartmann, ApJ, 224, 520
- 1978 IUE Observations of X-Ray Sources: HD153919; HDE226868; HZ Her, A. K. Dupree *et al.*, *Nature*, **275**, 377.
- 1979 On the Long Term Variability of the K2e Star HD224085, L. Hartmann, C. Londono, and M. J. Phillips, ApJ, 229, 183
- 1979 Ultraviolet Spectroscopic Observations of Globular Clusters, A. K. Dupree *et al.*, ApJ, 230, L89
- 1979 Ultraviolet Observations of AM Herculis with IUE, J. C. Raymond *et al.*, ApJ, 230, L95
- 1979 Stellar Luminosity Stability, L. Hartmann, R. Rosner, ApJ, 230, 802
- 1979 Radiative Amplification of Sound Waves in the Winds of O and B Stars, K. B. MacGregor, L. Hartmann, and J. C. Raymond, ApJ, 231, 514
- 1979 Chromospheres of the Active Dwarf Binaries EQ Peg and Xi Boo, L. Hartmann *et al.*, ApJ, 233, L69
- 1979 High Pressure Transition Regions in Stellar Model Chromospheres, S. L. Baliunas, E. H. Avrett, L. Hartmann, and A. K. Dupree, ApJ, 233, L129
- 1980 Hybrid Atmospheres and Winds in Supergiant Stars, L. Hartmann, A. K. Dupree, and J. C. Raymond, ApJ, 236, L143
- 1980 IUE Observations of the X-ray Source HZ Herculis/Her X-1, H. Gursky *et al.*, ApJ, 237, 163
- 1980 IUE Observations of Sco X-1, A. J. Willis *et al.*, ApJ, 237, 596
- 1980 Ultraviolet Observations of the Cygnus Loop, J. C. Raymond, J. H. Black, A. K. Dupree, L. Hartmann, and R. S. Wolf, ApJ, 238, 881
- 1980 Simultaneous UV, Optical, and X-ray Observations of the X-ray Source Vela X-1, A. K. Dupree *et al.*, ApJ, 238, 969
- 1980 Highly Ionized Species in the Interstellar Medium, J. H. Black, A. K. Dupree, L. Hartmann, and J. C. Raymond, ApJ, 239, 502

- 1980 On the Nature of MWC 349, L. Hartmann, D. Jaffe, and J. P. Huchra, *ApJ*, 239, 905
- 1980 Energy and Momentum Deposition in Late-Type Stellar Atmospheres and Winds, L. Hartmann and K. B. MacGregor, *ApJ*, 242, 260
- 1980 Ultraviolet, X-ray, and Infrared Observations of HDE 226868 = Cygnus X-1, A. Treves *et al.*, *ApJ*, 242, 1114
- 1981 Coordinated X-Ray, Ultraviolet, and Optical Observations of AM Her, U Gem, and SS Cyg, G. Fabbiano, L. Hartmann, J. C. Raymond, J. Steiner, G. Branduardi-Raymont, and T. Matilsky, *ApJ*, 243, 911
- 1981 Ultraviolet Emission of the Vela Supernova Remnant and the Cygnus Loop, J. C. Raymond, J. H. Black, A.K. Dupree, L. Hartmann, and R. S. Wolff, *ApJ*, 246, 100
- 1981 On the Relationship Between Coronae and Mass Loss in Late-Type Stars, L. Hartmann, A. K. Dupree, and J. C. Raymond, *ApJ*, 246, 193
- 1981 Short-Timescale Variability of Chromospheric Ca II in Late-Type Stars, S. L. Baliunas, L. Hartmann, A. H. Vaughan, W. Liller and A. K. Dupree, *ApJ*, 246, 473
- 1981 Evidence for a Starspot Cycle on BD +26° 730, L. Hartmann, B. Bopp, M. Dussault, P. V. Noah, and A. Klimke, *ApJ*, 249, 662
- 1981 Stellar Rotation in Lower Main Sequence Stars..., A. H. Vaughan, S. L. Baliunas, F. Middlekoop, L. Hartmann, D. Mihalas, R. W. Noyes, and G. W. Preston, *ApJ*, 250, 276
- 1982 Ultraviolet Observations of Stellar Chromospheric Activity, L. Hartmann, A. K. Dupree, and J. C. Raymond, *ApJ*, 252, 214
- 1982 Line Profiles of T Tauri Stars: Clues to the Nature of the Mass Flow, L. Hartmann, *ApJS*, 48, 109
- 1982 Wave-Driven Winds from Cool Stars. I. Some Effects of Magnetic Geometry, L. Hartmann and K. B. MacGregor, *ApJ*, 257, 264
- 1982 Protostellar Mass and Angular Momentum Loss, L. Hartmann and K. B. MacGregor, *ApJ*, 259, 180
- 1982 Wave-Driven Winds from Cool Stars. II. Models for T Tauri Stars, L. Hartmann, S. Edwards, and E. Avrett, *ApJ*, 261, 279
- 1982 The Photometric Variability of Solar-Type Stars. I. Preliminary Results for the Pleiades, Hyades, and Malmquist Field, R.R. Radick, L. Hartmann, D. Mihalas, S.P. Worden, J.L. Africano, A. Klimke, and E.T. Tyson, *AJ*, 94, 934
- 1983 HH-1 and HH-2: The Results of an Eruptive Event in the Cohen-Schwartz Star?, R. Mundt and L. Hartmann, *ApJ*, 268, 766

- 1983 Simultaneous X-Ray and Ultraviolet Observations of ϵ Ori and κ Ori, J.P. Cassinelli, L. Hartmann, W.T. Sanders, A.K. Dupree, and R.V. Meyers, *ApJ*, 268, 205
- 1983 Chromospheric and Coronal Emissions from the Giants in the Hyades Cluster, S.L. Baliunas, L. Hartmann, and A.K. Dupree, *ApJ*, 271, 672
- 1983 Star Formation in Blue Galaxies I. UV, Optical, and IR Observations of NGC 4214 and NGC 4670, J.P. Huchra, M.J. Geller, J. Gallagher, D. Hunter, L. Hartmann, G. Fabbiano, and M. Aaronson, *ApJ*, 274, 125
- 1983 The Photometric Variability of Solar-Type Stars III. Results from 1981-82, Including Parallel Observations of Thirty-six Hyades Stars, R.R. Radick et al., *PASP*, 95, 621
- 1983 Stellar Rotation in Lower Main-Sequence Stars Measured From Time Variations in H and K Emission Line Fluxes: II. Detailed Analysis of the 1980 Observing Season Data, S.L. Baliunas, A.H. Vaughan, L. Hartmann, F. Middelkoop, D. Mihalas, R.W. Noyes, G.W. Preston, J. Frazer, and H. Lanning, *ApJ*, 275, 752
- 1984 An Analysis of the Vaughan-Preston Survey of Chromospheric Emission, L. Hartmann, D. Soderblom, R.W. Noyes, N. Burnham, and A.H. Vaughan, *ApJ*, 276, 254
- 1984 A High-Resolution Study of Herbig-Haro Objects 1 and 2, L. Hartmann and J.C. Raymond, *ApJ*, 276, 560
- 1984 Rotation, Convection, and Magnetic Activity in Lower-Main Sequence Stars, R.W. Noyes, L. Hartmann, S.L. Baliunas, D.K. Duncan, and A.H. Vaughan, *ApJ*, 279, 763
- 1984 A Study of the Dependence of Mg II Emission on the Rotational Periods of Main Sequence Stars, L. Hartmann, S.L. Baliunas, D.K. Duncan, and R.W. Noyes, *ApJ*, 279, 788
- 1984 Rotational Velocities of Low-Mass Stars in the Pleiades, J.R. Stauffer, L. Hartmann, D.R. Soderblom, and N. Burnham, *ApJ*, 280, 202
- 1984 Chromospheres and Mass Loss in Metal-Deficient Giant Stars, A.K. Dupree, L. Hartmann, and E.H. Avrett, *ApJ*, 281, L37
- 1984 On the Extended Chromosphere of α Ori, L. Hartmann and E.H. Avrett, *ApJ*, 284, 238
- 1984 The Photometric Variability of Solar-Type Stars. IV. Detection of Rotational Modulation Among Hyades Stars, G.W. Lockwood et al., *PASP*, 96, 583
- 1984 How to Find Galaxies at High Redshift, L. Hartmann, J.P. Huchra, and M.J. Geller, *ApJ*, 287, 487
- 1985 Evolution of Low Mass Stars in the α Persei Cluster, J.R. Stauffer, L. Hartmann, N. Burnham, and B.F. Jones, *ApJ*, 289, 247

- 1985 On the Outer Atmospheres of Hybrid Stars, L. Hartmann, C. Jordan, A. Brown, and A.K. Dupree, *ApJ*, 296, 576
- 1985 On the Nature of FU Orionis Objects, L. Hartmann and S.J. Kenyon, *ApJ*, 299, 462
- 1986 The Chromospheric Activity, Kinematics, and Metallicities of Nearby M Dwarfs, J.R. Stauffer and L. Hartmann, *ApJS*, 61, 531
- 1986 Rotational and Radial Velocities of T Tauri Stars, L. Hartmann, R. Hewett, S. Stahler, R. Mathieu, *ApJ*, 309, 275
- 1986 Kinematics of H II Regions in the Blue Irregulars NGC 4214 and NGC 4449, L.W. Hartmann, M.J. Geller, and J.P. Huchra, *AJ*, 92, 1278
- 1987 Further Evidence for Disk Accretion in FU Orionis Objects, L. Hartmann and S.J. Kenyon, *ApJ*, 312, 243
- 1987 Mass Loss From FU Orionis Objects, K. Croswell, L. Hartmann, and E.H. Avrett, *ApJ*, 312, 227
- 1987 Rotation and Kinematics of the Pre-Main Sequence Stars in Taurus-Auriga with Ca II Emission, L. Hartmann, D.R. Soderblom, and J.R. Stauffer, *AJ*, 93, 907
- 1987 Radiative Bowshock Models of HH Objects, P. Hartigan, J. Raymond, and L. Hartmann, *ApJ*, 316, 323
- 1987 Periodic Photospheric and Chromospheric Modulation in α Ori, A.K. Dupree, S.L. Baliunas, E.F. Guinan, L. Hartmann, G.E. Nassiopoulos, and G. Sonneborn, *ApJ*, 317, L85
- 1987 Rotational Velocities of Low-Mass Stars in the Pleiades. II. J.R. Stauffer and L. Hartmann, *ApJ*, 318, 337
- 1987 Rotational Velocities of Low Mass Stars in the Hyades, J.R. Stauffer, L.W. Hartmann, and D.W. Latham, *ApJ*, 320, L51
- 1987 High-Resolution Infrared Observations of V1057 Cyg, L. Hartmann and S.J. Kenyon, *ApJ*, 322, 393
- 1987 Spectral Energy Distributions of T Tauri Stars: Disk Flaring and Limits on Accretion, S.J. Kenyon and L. Hartmann, *ApJ*, 323, 714
- 1988 Accretion Disk Models for FU Ori and V1057 Cyg: Detailed Comparisons Between Observation and Theory, S.J. Kenyon, L. Hartmann, and R. Hewett, *ApJ*, 325, 231
- 1988 Ly α Emission in Star-Forming Galaxies, L. Hartmann, J.P. Huchra, M.J. Geller, P. O'Brien, and R. Wilson, *ApJ*, 326, 101

- 1988 Improved Bow Shock Models for HH Objects: Application to HH2A', J.C. Raymond, P. Hartigan, and L. Hartmann, *ApJ*, 326, 323
- 1988 Luminosity Excesses in Low Mass Young Stellar Objects: A Statistical Study, K.M. Strom, S.E. Strom, S.J. Kenyon, and L. Hartmann, *AJ*, 95, 534
- 1988 A Detailed Study of the Lynds 1551 Star Formation Region, J. Stocke et al., *ApJS*, 68, 229
- 1989 Wind-Disk Shocks Around T Tauri Stars, L. Hartmann and J.C. Raymond, *ApJ*, 337, 903
- 1989 Pre-Main Sequence Disk Accretion in Z Canis Majoris, L. Hartmann, S.J. Kenyon, R. Hewett, S. Edwards, K.M. Strom, S.E. Strom, and J.R. Stauffer, *ApJ*, 338, 1001
- 1989 Additional Measurements of Pre-Main Sequence Rotation, L. Hartmann and J.R. Stauffer, *AJ*, 97, 873
- 1989 Ultraviolet Spectrophotometry and Optical and Infrared Photometry of the Old Nova GK Persei, Wu, C.-C., Panek, R.J., Holm, A.V., Raymond, J.C., Hartmann, L., and Swank, J., *ApJ*, 339, 443
- 1989 How To Unveil a T Tauri Star, P. Hartigan, L. Hartmann, S. Kenyon, R. Hewett, and J. Stauffer, *ApJS*, 70, 899
- 1989 Pre-Main-Sequence Stars in the Young Cluster IC 2391, J. Stauffer, L. Hartmann, B.F. Jones, and B.R. McNamara, *ApJ*, 342, 285
- 1989 High Resolution Infrared Spectra of FU Orionis Variables: Keplerian Rotation and Mass Loss, S.J. Kenyon and L. Hartmann, *ApJ*, 342, 1134
- 1989 Ultraviolet Spectroscopy of Pre-Main Sequence Accretion Disks, S.J. Kenyon, L. Hartmann, C.L. Imhoff, and A. Cassatella, *ApJ*, 344, 925
- 1989 Rotational Velocities of Newly Discovered, Low-Mass Members of the Alpha Persei Cluster, J.R. Stauffer, L.W. Hartmann, and B.F. Jones, *ApJ*, 346, 160
- 1990 Winds from T Tauri Stars. I. Spherically-Symmetric Models, L. Hartmann, N. Calvet, E.H. Avrett, and R.K. Loeser, *ApJ*, 349, 168
- 1990 Optical Veiling, Disk Accretion, and the Evolution of T Tauri Stars, L. Hartmann and S.J. Kenyon, *ApJ*, 349, 190
- 1990 On the Apparent Positions of T Tauri Stars in the HR Diagram, S.J. Kenyon and L. Hartmann, *ApJ*, 349, 197
- 1990 Further Evidence for Differential Rotation in V1057 Cyg, A.D. Welty, S.E. Strom, K.M. Strom, L.W. Hartmann, S.J. Kenyon, G.L. Grasdalen, and J.R. Stauffer, *ApJ*, 349, 328

- 1990 An IRAS Survey of the Taurus-Auriga Molecular Cloud, S.J. Kenyon, L. Hartmann, K.M. Strom, and S.E. Strom, *AJ*, 99, 869
- 1990 Chromospheres of Metal-Deficient Field Giants, A.K. Dupree, L. Hartmann, and G.H. Smith, *ApJ*, 353, 623
- 1990 Correlations of Optical and Infrared Excesses in T Tauri Stars, P. Hartigan, L. Hartmann, S.J. Kenyon, S.E. Strom, and M.F. Skrutskie, *ApJ*, 354, L25
- 1990 Radio Continuum from FU Orionis Stars, L.F. Rodriguez, L.W. Hartmann, and E. Chavira, *PASP*, 102, 1413
- 1991 The High State of the FU Orionis Variable Z Canis Majoris, F.V. Hessman, J. Eisloffel, R. Mundt, L. W. Hartmann, W. Herbst, and J. Krautter, *ApJ*, 370, 384
- 1991 A Proper Motion Survey for Pre-Main Sequence Stars in Taurus-Auriga, L. Hartmann, B.F. Jones, J. Stauffer, and S.J. Kenyon, *AJ*, 101, 1050
- 1991 The Chromospheric Activity of Low-Mass Stars in the Hyades, J.R. Stauffer, M.S. Giampapa, W. Herbst, J.M. Vincent, L.W. Hartmann, and R.A. Stern, *ApJ*, 374, 142
- 1991 Optical Excess Emission in T Tauri Stars, P. Hartigan, S.J. Kenyon, L. Hartmann, S.E. Strom, S. Edwards, A.D. Welty, and J. Stauffer, *ApJ*, 382, 617
- 1991 On the FU Orionis Variable V1515 Cyg, S.J. Kenyon, L. Hartmann, and E.A. Kolotilov, *PASP*, 103, 1069
- 1991 The Dusty Envelopes of FU Orionis Variables, S.J. Kenyon and L. Hartmann, *ApJ*, 383, 664
- 1991 On the Near-Infrared Spectrum of FU Orionis, N. Calvet, L. Hartmann, and S.J. Kenyon, *ApJ*, 383, 752
- 1992 Winds from T Tauri Stars. II. Balmer Line Profiles for Inner Disk Winds, N. Calvet, L. Hartmann, and R. Hewett, *ApJ*, 386, 229
- 1992 Balmer Line Profiles for Infalling T Tauri Envelopes, N. Calvet and L. Hartmann, *ApJ*, 386, 239
- 1992 Model Scattering Envelopes of Young Stellar Objects. I. Method and Application to Circumstellar Disks, B.A. Whitney and L. Hartmann, *ApJ*, 395, 529
- 1992 On the Ages of Pre-Main Sequence Stars in Taurus, M. Gomez, B.F. Jones, L. Hartmann, S.J. Kenyon, J.R. Stauffer, R. Hewett, and I.N. Reid, *AJ*, 104, 762
- 1992 Optical Spectroscopy of Z CMa, V1057 Cyg, and FU Ori: Accretion Disks and Signatures of Disk Winds, A.D. Welty, S.E. Strom, S. Edwards, S.J. Kenyon, and L.W. Hartmann, *ApJ*, 397, 260

- 1992 On the Nature of the Centimeter Continuum Emission from the FU Orionis Stars V1057 Cyg and Elias 1-12, L.F. Rodriguez and L. Hartmann, *Rev. Mex. Astr. Ap*, 24, 135.
- 1993 Model Scattering Envelopes of Young Stellar Objects. II. Infalling Envelopes, B. A. Whitney and L. Hartmann, *ApJ*, 402, 605
- 1993 Mass Loss from Protostellar Accretion Disks. I. The Accelerating Wind of FU Orionis, N. Calvet, L. Hartmann, and S.J. Kenyon, *ApJ*, 402, 623.
- 1993 The Excess Infrared Emission of Herbig Ae/Be Stars: Disks or Envelopes?, L. Hartmann, S. J. Kenyon, and N. Calvet, *ApJ*, 407, 219.
- 1993 RNO 1B/1C; A Double FU Orionis System, S.J. Kenyon, L. Hartmann, M. Gomez, J. Carr, & A. Tokunaga, *AJ*, 105, 1505.
- 1993 On the Spatial Distribution of Pre-Main Sequence Stars in Taurus, M. Gomez, L. Hartmann, S.J. Kenyon, and R. Hewett, *AJ*, 105, 1927.
- 1993 The Embedded Young Stars in the Taurus-Auriga Molecular Cloud. I. Models for Spectral Energy Distributions, S.J. Kenyon, N. Calvet, & L. Hartmann, *ApJ*, 414, 676
- 1993 First Results of the CIDA Schmidt Survey: Selected Zones in Taurus-Auriga, C. Briceño, Calvet, N., Gomez, M., Hartmann, L.W., Kenyon, S.J., & Whitney, B.A., *PASP*, 105, 686
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- 2012 Thresholds for Star Formation, L. Hartmann, colloquium, Centro de Radioastronomia y Astrofisica, UNAM, Morelia, Mexico
- 2012 Thirty-five plus years of protostellar collapse models, L. Hartmann, invited talk, Star Formation & the Interstellar Medium: Thirty Five Years Later, Berkeley, CA Sep. 2012

- 2013 Putting the "Star" back in star formation with help from friends at CRyA, invited talk at meeting "Frontiers in Contemporary Astrophysics", for the 10th anniversary of the Centro de Radioastronomia y Astrofisica, UNAM, Morelia, Mexico
- 2014 The protostellar luminosity problem; historical perspective, invited talk at 2014 Oort Workshop, Leiden
- 2015 June, invited review on "Formation of Protostars and Protoplanetary Disks" at the Gordon Research Conference on "Origins of Solar Systems", Mt. Holyoke College.
- 2016 January, invited review on "Disk evolution and the fate of water", at The Delivery of Water to Proto-planets, Planets, and Satellites, workshop at the International Space Science Institute, Bern, Switzerland
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