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Education : Stuyvesant High School, NYC: graduated 1979
Princeton University: A. B., Physics, 1983
(Senior Thesis advisor: Joseph Taylor)
University of Colorado at Boulder: M.A., Physics, 1985; Ph.D., Physics, 1989
(Dissertation advisor: Richard McCray)

Relevant Employment :

July 2007 –	Chair, Division of Physical Sciences, American Museum of Natural History
July 2005 –	Curator-in-Charge, Department of Astrophysics, American Museum of Natural History
July 2007 –	Curator, Department of Astrophysics, American Museum of Natural History
July 2007 –	Adjunct Professor, Department of Astronomy, Columbia University
July 2002 – June 2007	Associate Curator, Department of Astrophysics, American Museum of Natural History
July 2002 – June 2007	Adjunct Associate Professor, Department of Astronomy, Columbia University
May 1999 – June 2002	Assistant Curator, Department of Astrophysics, American Museum of Natural History
May 1999 – June 2002	Adjunct Assistant Professor, Department of Astronomy, Columbia University
Sept. 1995 – April 1999	Scientist, Max-Planck-Institut für Astronomie
January 1994 – August 1995	Research Associate, Department of Astronomy, Univ. of Illinois at Urbana-Champaign
September 1992 – August 1995	Research Associate, Department of Astronomy & Astrophysics, University of Chicago

January 1991 – August 1992 Research Associate, Center for Star Formation Studies, University of California at Berkeley

January 1989 – December 1990 National Research Council Postdoctoral Fellow, NASA Ames Research Center

September 1983 – December 1988 Research Assistant, Joint Institute for Laboratory Astrophysics, University of Colorado and National Bureau of Standards

Summer 1984 Programmer, Space Astronomy Laboratory, University of Wisconsin at Madison

Summer 1982 Undergraduate Research Fellow, Division of Geological and Planetary Sciences, California Institute of Technology

Professional Associations : International Astronomical Union, American Astronomical Society, American Physical Society

Fields of Interest : Structure of the Interstellar Medium and Molecular Clouds, Blast Waves, Star Formation, Circumstellar Nebulae, Planetary Impacts, Computational Gas Dynamics and Magnetohydrodynamics

Citizenship : United States

Languages : English (native), German (conversational), French (reading), Spanish (reading)

Ph. D. Dissertation

“Interactions of Massive Stars with the Interstellar Medium: Bow Shocks and Superbubbles,” 1989, Department of Physics, University of Colorado at Boulder.

Scientific Papers in Refereed Journals

1. “Molecular Processes and Gravitational Collapse in Intergalactic Shocks,” Mac Low, M.-M., and Shull, J. M. 1986, *Astrophys. J.*, 302, 585.
2. “Merging of Vortices in the Atmosphere of Jupiter: An Analysis of Voyager Images,” Mac Low, M.-M., and Ingersoll, A. P. 1986, *Icarus*, 65, 353.
3. “Superbubbles in Disk Galaxies,” Mac Low, M.-M., and McCray, R. 1988, *Astrophys. J.*, 324, 776.
4. “Superbubble Blowout Dynamics,” Mac Low, M.-M., McCray, R., and Norman, M. L. 1989, *Astrophys. J.*, 337, 141.
5. “Cometary Compact H II Regions are Stellar Wind Bow Shocks,” Van Buren, D., Mac Low, M.-M., Wood, D. O. S., and Churchwell, E. 1990, *Astrophys. J.*, 353, 570.
6. “X-Ray Emission From Colliding Stellar Winds,” Luo, D., McCray, R., and Mac Low, M.-M. 1990, *Astrophys. J.*, 362, 267.
7. “X-Rays From Superbubbles in the Large Magellanic Clouds,” Chu, Y.-H., and Mac Low, M.-M. 1990, *Astrophys. J.*, 365, 510.
8. “Bow Shock Models of Ultracompact H II Regions,” Mac Low, M.-M., Van Buren, D., Wood, D. O. S., and Churchwell, E. 1991, *Astrophys. J.*, 369, 395.
9. “Expansion of a Superbubble in a Uniform Magnetic Field,” Ferrière, K. M., Mac Low, M.-M., and Zweibel, E. G. 1991, *Astrophys. J.*, 375, 239.
10. “The Semicircular Shell of CTB 109,” Wang, Z., Qu, Q., Luo, D., McCray, R., and Mac Low, M.-M. 1992, *Astrophys. J.*, 388, 127.
11. “Water Masers in W49N—The Youngest Stellar Jet?,” Mac Low, M.-M. and Elitzur, M. 1992, *Astrophys. J. (Letters)*, 393, L33.
12. “Bow Shock Models for the Velocity Structure of Ultracompact H II Regions,” Van Buren, D., and Mac Low, M.-M. 1992, *Astrophys. J.*, 394, 534.
13. “Nonlinear Growth of Dynamical Overstabilities in Blast Waves,” Mac Low, M.-M. and Norman, M. L. 1993, *Astrophys. J.*, 407, 207.
14. “Hidden Supernova Remnants in the Large Magellanic Cloud H II Complex N44,” Chu, Y.-H., Mac Low, M.-M., García-Segura, G., Wakker, B., and Kennicutt, R. C., Jr. 1993, *Astrophys. J.*, 414, 213.
15. “A Protostellar Jet Model for the Water Masers in W49N,” Mac Low, M.-M., Elitzur, M., Stone, J. M., and Königl, A. 1994, *Astrophys. J.*, 427, 914.
16. “The Collision of Comet Shoemaker-Levy 9 and Jupiter,” Zahnle, K., and Mac Low, M.-M. 1994, *Icarus*, 108, 1.

17. "Two New Supernova Remnants in OB Associations in the Large Magellanic Cloud," Smith, R. C., Chu, Y.-H., Mac Low, M.-M., Oey, M. S., & Klein U. 1994, *Astron. J.*, 108, 1266.
18. "Shock Interactions with Magnetized Interstellar Clouds: I. Steady Shocks Hitting Nonradiative Clouds," Mac Low, M.-M., McKee, C. F., Klein, R. I., Stone, J. M., and Norman, M. L., 1994, *Astrophys. J.*, 433, 757.
19. "Explosion of Comet Shoemaker-Levy 9 on Entry into the Jovian Atmosphere," Mac Low, M.-M., and Zahnle, K. 1994, *Astrophys. J. (Letters)*, 434, L33.
20. "Ultraviolet Interstellar Absorption Lines in the Large Magellanic Cloud: Searching for Hidden Supernova Remnants," Chu, Y.-H., Wakker, B., Mac Low, M.-M., and García-Segura, G. 1994, *Astron. J.*, 108, 1696.
21. "Incorporation of Ambipolar Diffusion into the ZEUS Magnetohydrodynamics Code," Mac Low, M.-M., Norman, M. L., Königl, A., and Wardle, M. 1995, *Astrophys. J.*, 442, 726.
22. "Collision of Comet Shoemaker-Levy 9 with Jupiter Observed by the NASA Infrared Telescope Facility," Orton, G. O., et al. 1995, *Science*, 267, 1277.
23. "X-Rays from Superbubbles in the Large Magellanic Cloud. III. X-ray Dim Superbubbles," Chu, Y.-H., Chang, H.-W., Su, Y.-L., and Mac Low, M.-M. 1995, *Astrophys. J.*, 450, 157.
24. "Sulfur Chemistry in the Wake of Comet Shoemaker-Levy 9," Zahnle, K., Mac Low, M.-M., Lodders, K., and Fegley, B., Jr. 1995, *Geophys. Res. Lett.*, 22, 1593.
25. "A Simple Model for the Light Curve Generated by a Shoemaker-Levy 9 Impact," Zahnle, K., and Mac Low, M.-M. 1995, *J. Geophys. Res., Planets*, 100, 16885.
26. "Wolf-Rayet Bubbles. I. Analytic Solutions," García-Segura, G., and Mac Low, M.-M. 1995, *Astrophys. J.*, 455, 145.
27. "Wolf-Rayet Bubbles. II. Gasdynamical Simulations," García-Segura, G., and Mac Low, M.-M. 1995, *Astrophys. J.*, 455, 160.
28. "The Dynamical Evolution of Circumstellar Gas Around Massive Stars. I. The Impact of the Time Sequence O Star \rightarrow LBV \rightarrow WR Star," García-Segura, G., Mac Low, M.-M., and Langer, N. 1996, *Astron. & Astrophys.*, 305, 229.
29. "The Hydrodynamical Evolution of Circumstellar Gas Around Massive Stars. II. The Impact of the Time Sequence O Star \rightarrow RSG \rightarrow WR Star," García-Segura, G., Langer, N., and Mac Low, M.-M. 1996, *Astron. & Astrophys.*, 316, 133.
30. "The OMC-1 Molecular Hydrogen Outflow as a Fragmented Stellar Wind Bubble," McCaughrean, M. J., and Mac Low, M.-M. 1997, *Astron. J.*, 113, 391.
31. "An Interstellar Conduction Front Surrounding a Wolf-Rayet Ring Nebula Observed with the *GHRSS*," Boroson, B., McCray, R., Clark, C. O., Slavin, J., Mac Low, M.-M., Chu, Y.-H., and Van Buren, D. 1997, *Astrophys. J.*, 478, 638.
32. "The formation of C-shocks: structure and signatures," Smith, M. D., and Mac Low, M.-M. 1997, *Astron & Astrophys.*, 326, 801.
33. "Nonlinear Development and Observational Consequences of Wardle C-Shock Instabilities," Mac Low, M.-M., and Smith, M. D. 1997, *Astrophys. J.*, 491, 596.

34. "X-Rays from Superbubbles in the Large Magellanic Cloud. V. The HII Complex N11," Mac Low, M.-M., Chang, T. H., Chu, Y.-H., Points, S. D., Smith, R. C., and Wakker, B. P. 1998, *Astrophys. J.*, 493, 260.
35. "Kinetic Energy Decay Rates of Supersonic and Super-Alfvénic Turbulence in Star-Forming Clouds," Mac Low, M.-M., Klessen, R. S., Burkert, A., and Smith, M. D. 1998, *Phys. Rev. Lett.*, 80, 2754.
36. "Starburst-driven Mass Loss from Dwarf Galaxies: Efficiency and Metal Ejection," Mac Low, M.-M., and Ferrara, A. 1999, *Astrophys. J.*, 513, 142.
37. "Giant Outbursts of Luminous Blue Variables and the Formation of the Homunculus Nebula Around η Carinae," Langer, N., García-Segura, G., and Mac Low, M.-M. 1999, *Astrophys. J. (Letters)*, 520, L49.
38. "The Energy Dissipation Rate of Supersonic, Magnetohydrodynamic Turbulence in Molecular Clouds," Mac Low, M.-M. 1999, *Astrophys. J.*, 524, 169
39. "Characterizing the structure of interstellar turbulence," Mac Low, M.-M., and Ossenkopf, V. 1999, *Astron. & Astrophys.*, 353, 339.
40. "Gravitational Collapse in Turbulent Molecular Clouds. I. Gasdynamical Turbulence," Klessen, R. S., Heitsch, F., & Mac Low, M.-M. 2000, *Astrophys. J.*, 535, 887.
41. "The Shock Waves in Decaying Supersonic Turbulence," Smith, M. D., Mac Low, M.-M., & Zuev, J. M. 2000, *Astron. Astrophys.*, 356, 287.
42. "High Resolution Calculations of Asteroid Impacts into the Venusian Atmosphere," Korycansky, D. G., Zahnle, K. J., & Mac Low, M.-M. 2000, *Icarus*, 146, 387 (erratum, 147, 592).
43. "The Distribution of Shock Waves in Driven Supersonic Turbulence," Smith, M. D., Mac Low, M.-M., & Heitsch, F. 2000, *Astron. Astrophys.*, 362, 333.
44. "Gravitational Collapse in Turbulent Molecular Clouds. II. Magnetohydrodynamical Turbulence," Heitsch, F., Mac Low, M.-M., & Klessen, R. S. 2001, *Astrophys. J.*, 547, 280.
45. "Mushroom-Shaped Structures as Tracers of Buoyant Flow in the Galactic Disk," Avillez, M. A. & Mac Low, M.-M. 2001, *Astrophys. J. (Letters)*, 551, L57
46. "Magnetic Field Diagnostics Based on Far-Infrared Polarimetry: Tests Using Numerical Simulations," Heitsch, F., Zweibel, E. G., Mac Low, M.-M., Li, P., & Norman, M. L. 2001, *Astrophys. J.*, 561, 800.
47. "High Resolution Calculations of Asteroid Impacts into the Venusian Atmosphere II: 3D Models," Korycansky, D. G., Zahnle, K. J., & Mac Low, M.-M. 2002, *Icarus*, 157, 1.
48. "Physical vs. Observational Properties of Clouds in Turbulent Molecular Cloud Models," Ballesteros-Paredes, J., & Mac Low, M.-M. 2002, *Astrophys. J.*, 570, 734.
49. "Turbulent Velocity Structure in Molecular Clouds," Ossenkopf, V., & Mac Low, M.-M. 2002, *Astron. Astrophys.*, 390, 307.
50. "Hydrodynamical simulations of the decay of high-speed molecular turbulence. I. Dense molecular regions," Pavlovski, G., Smith, M. D., Mac Low, M.-M., & Rosen, A. 2002, *Monthly Not. Roy. Astron. Soc.*, 337, 477.

51. "Mixing Time Scales in a Supernova-Driven Interstellar Medium," Avillez, M. A., & Mac Low, M.-M. 2002, *Astrophys. J.*, 581, 1047.
52. "Effects of the Equation of State on the Formation of Star Clusters," Li, Y., Klessen, R. S., & Mac Low, M.-M., 2003, *Astrophys. J.*, 592, 975.
53. "The Influence of Supershells and Galactic Outflows on the Escape of Ionizing Radiation from Dwarf Starburst Galaxies," Fujita, A., Martin, C., Mac Low, M.-M., & Abel, T. 2003, *Astrophys. J.*, 599, 50.
54. "The Control of Star Formation by Supersonic Turbulence," Mac Low, M.-M., & Klessen, R. S., 2004, *Rev. Mod. Phys.*, 76, 125.
55. "Modification of Projected Velocity Power Spectra by Density Inhomogeneities in Compressible Supersonic Turbulence," Brunt, C. M., & Mac Low, M.-M. 2004, *Astrophys. J.*, 604, 196.
56. "The Formation of Self-Gravitating Cores in Turbulent Magnetized Clouds," Li, P. S., Norman, M. L., Mac Low, M.-M., & Heitsch, F. 2004, *Astrophys. J.*, 605, 800.
57. "Chondrule Formation and Protoplanetary Disk Heating by Current Sheets in Non-Ideal Magnetohydrodynamic Turbulence," Joung, M. K. R., Mac Low, M.-M., & Ebel, D. S. 2004, *Astrophys. J.*, 606, 532.
58. "Ionization of Compressible Turbulence," Li, Y., Mac Low, M.-M., & Abel, T. 2004, *Astrophys. J.*, 610, 339.
59. "Cosmological Feedback from High-Redshift Dwarf Galaxies," Fujita, A., Mac Low, M.-M., Ferrara, A., & Meiksin, A. 2004, *Astrophys. J.*, 613, 159 (erratum 615, 1082).
60. "Amplification of Interstellar Magnetic Fields by Supernova-Driven Turbulence," Balsara, D. S., Kim, J., Mac Low, M.-M., & Mathews, G. J. 2004, *Astrophys. J.*, 617, 339.
61. "Formation of Globular Clusters in Galaxy Mergers," Li, Y., Mac Low, M.-M., & Klessen, R. S. 2004, *Astrophys. J. (Letters)*, 614, L29.
62. "Control of Star Formation in Galaxies by Gravitational Instability," Li, Y., Mac Low, M.-M., & Klessen, R. S. 2005, *Astrophys. J. (Letters)*, 620, L19
63. "The Stellar Mass Spectrum from Non-Isothermal Gravoturbulent Fragmentation," Jappsen, A.-K., Klessen, R. S., Larson, R. B., Li, Y., & Mac Low, M.-M. 2005, *Astron. Astrophys.*, 435, 611.
64. "Star Formation in Isolated Disk Galaxies. I. Models and Star Formation Characteristics," Li, Y., Mac Low, M.-M., & Klessen, R. S. 2005, *Astrophys. J.*, 626, 823.
65. "The Distribution of Pressures in a Supernova-Driven Interstellar Medium. I. Magnetized Medium," Mac Low, M.-M., Balsara, D., Kim, J., & Avillez, M. A. 2005, *Astrophys. J.*, 626, 864.
66. "The Inability of Ambipolar Diffusion to Set a Characteristic Mass Scale in Molecular Clouds," Oishi, J. S., & Mac Low, M.-M. 2006, *Astrophys. J.*, 638, 281.
67. "Star Formation in Isolated Disk Galaxies. II. Schmidt Laws and Gravitational Collapse Efficiency," Li, Y., Mac Low, M.-M., & Klessen, R. S. 2006, *Astrophys. J.*, 639, 879.

68. "Hydrodynamical simulations of the decay of high-speed molecular turbulence. II. Divergence from isothermality," Pavlovski, G., Smith, M. D. & Mac Low, M.-M. 2006, *Monthly Not. Roy. Astron. Soc.*, 368, 943.
69. "Simulating Radiating and Magnetized Flows in Multi-Dimensions with ZEUS-MP," Hayes, J. C., Norman, M. L., Fiedler, R. A., Bordner, J. O., Li, P. S., Clark, S. E., ud-Doula, A., & Mac Low, M.-M. 2006, *Astrophys. J. Suppl.*, 165, 188.
70. "Turbulent Structure of a Stratified Supernova-Driven Interstellar Medium," Joung, M. K. R., & Mac Low, M.-M. 2006, *Astrophys. J.*, 653, 1266.
71. "Star Formation at Very Low Metallicity. II: On the Insignificance of Metal-Line Cooling During the Early Stages of Gravitational Collapse," Jappsen, A.-K., Glover, S. C. O., Klessen, R. S., & Mac Low, M.-M. 2007, *Astrophys. J.*, 660, 1332
72. "Simulating the formation of molecular clouds. I. Slow formation by gravitational collapse from static initial conditions," Glover, S. C. O., & Mac Low, M.-M. 2007, *Astrophys. J. Suppl.*, 169, 239.
73. "Simulating the formation of molecular clouds. II. Rapid formation from turbulent initial conditions," Glover, S. C. O., & Mac Low, M.-M. 2007, *Astrophys. J.*, 659, 1317.
74. "Correlations Between Central Massive Objects and Their Host Galaxies: From Bulgeless Spirals to Ellipticals," Li, Y., Haiman, Z., & Mac Low, M.-M. 2007, *Astrophys. J.*, 663, 61.
75. "Rapid Planetesimal Formation in Turbulent Circumstellar Discs," Johansen, A., Oishi, J. S., Mac Low, M.-M., Klahr, H., Henning, Th., & Youdin, A. 2007, *Nature*, 448, 1022.
76. "Dynamical Expansion of H II Regions from Ultracompact to Compact Sizes in Turbulent, Self-Gravitating Molecular Clouds," Mac Low, M.-M., Toraskar, J., Oishi, J. S., & Abel, T. 2007, *Astrophys. J.*, in press.
77. "Turbulent Torques on Protoplanets in a Dead Zone," Oishi, J. S., Mac Low, M.-M., & Menou, K. 2007, *Astrophys. J.*, in press.
78. "Large-scale Gravitational Instability and Star Formation in the Large Magellanic Cloud," Yang, C.-C., Gruendl, R., Chu, Y.-H., Mac Low, M.-M., & Fukui, Y. 2007, *Astrophys. J.*, in press.
79. "A constrained-transport magnetohydrodynamics algorithm with near-spectral resolution," Maron, J. L., Mac Low, M.-M., & Oishi, J. S. 2007, *Astrophys. J.*, submitted.

Ph. D. Dissertations Supervised

1. "Hydrodynamic Interactions Between Massive Isolated Stars and the Interstellar Medium," G. García-Segura, 1994, Departamento de Astrofísica, Universidad de La Laguna, Canary Islands, Spain.
2. "Cosmological Feedback from Dwarf Starburst Galaxies," A. Fujita, 2003, Department of Astronomy, Columbia University, New York, USA.
3. "Star Formation Near and Far," Y. Li, 2005, Department of Astronomy, Columbia University, New York, USA.

4. "Supernova-Driven Interstellar Turbulence," M. K. R. Joung, 2006, Department of Astronomy, Columbia University, New York, USA
5. "Non-Ideal Magnetohydrodynamics in Star and Planet Formation," J. S. Oishi, 2007, Department of Astronomy, University of Virginia, Charlottesville, VA, USA

Invited Reviews

1. "Bullets or Fragmenting Shells," Mac Low, M.-M. 1995, *Nature (News & Views)*, 377, 287.
2. "Entry and Fireball Models vs. Observations: What Have We Learned?," Mac Low, M.-M. 1996, in *The Impacts of Comet D/Shoemaker-Levy 9 into Jupiter*, IAU Colloquium 156, ed. K. Noll, (Cambridge: Cambridge University Press), 154. (**refereed**)
3. "Superbubble Blowout," Mac Low, M.-M. 1996, in *The Interplay Between Massive Star Formation, the ISM and Galaxy Evolution*, ed. D. Kunth, et al. (Paris: Editions Frontières), 169.
4. "Structure and Dynamics of Magnetized Interstellar Clouds: Super-Alfvénic Turbulence?," Mac Low, M.-M. 1997, in *The Orion Complex Revisited*, ed. M. J. McCaughrean & A. Burkert (San Francisco: Astron. Soc. Pacific), in press.
5. "Wolf-Rayet and LBV Nebulae as the Result of Variable and Non-Spherical Stellar Winds," Mac Low, M.-M. 1998, in *IAU Colloquium 169 on Variable and Non-Spherical Stellar Winds in Luminous Hot Stars*, ed. B. Wolf (Heidelberg: Springer-Verlag), 391.
6. "The Interaction of the Disk with the Halo" Mac Low, M.-M. 1998, in *New Perspectives on the Interstellar Medium*, eds. A. R. Taylor, T. L. Landecker, and G. Joncas (San Francisco: ASP), 303.
7. "MHD Turbulence in Star-Forming Clouds," Mac Low, M.-M., Klessen, R. S., and Heitsch, F. 1999, in *Optical and Infrared Spectroscopy of Circumstellar Matter*, eds. S. Klose, E. Günther, & B. Stecklum, (San Francisco: ASP), 177.
8. "Is the Plasma within Bubbles and Superbubbles Hot or Cold," Mac Low, M.-M. 1999, in *Astrophysical Plasmas: Codes, Models & Observations*. Mexico City 25-29 October, 1999. Editors: S.J. Arthur, N. Brickhouse and J. Franco. To be published in the *Revista Mexicana de Astronomia y Astrofisica*, Serie de Conferencias, E40.
9. "The Dynamical Interstellar Medium: Insights from Numerical Models," Mac Low, M.-M. 2000, in *Stars, Gas, and Dust in Galaxies*, eds. D. Alloin, K. Olsen, & G. Galaz (San Francisco: ASP), 55.
10. "Clustered vs. Isolated Star Formation," Mac Low, M.-M. 2002, in *Modes of Star Formation and the Origin of Field Populations*, eds. E. K. Grebel & W. Brandner (San Francisco: ASP), 112.
11. "What Controls the Star-Formation Rate in Galaxies?," Mac Low, M.-M. 2002, *Astrophys. Sp. Sci.*, 281, 429.
12. "MHD Turbulence in Star-Forming Regions," Mac Low, M.-M. 2003, in *Turbulence and Magnetic Fields in Astrophysics*, eds. E. Falgarone & T. Passot, (Heidelberg: Springer Lecture Notes in Physics), 182. (**refereed**)

13. “Wolf-Rayet Central Stars and the Binary Evolution Channel,” De Marco, O., Sandquist, E. L., Mac Low, M.-M., Herwig, F., & Taam, R. E. 2003, *Rev. Mex. Astron. Astrofis. (Conf. Ser.)*, 18, 24–30.
14. “Turbulence in the Interstellar Medium: Energetics and Driving Mechanisms,” Mac Low, M.-M., 2004, *Astrophys. Space Sci.*, 289, 323-331.
15. “The Turbulent Interstellar Medium: Insights and Questions from Numerical Models,” Mac Low, M.-M., Avillez, M. A., & Korpi, M. J. 2004, in *How Does the Galaxy Work?*, eds. E. J. Alfaro, E. Pérez, J. Franco (Dordrecht: Kluwer) 339-346.
16. “Turbulent Structure of the Interstellar Medium,” Mac Low, M.-M. 2004, in *The Dense Interstellar Medium in Galaxies*, eds. S. Pfalzner, C. Kramer, C. Straubmeier, & A. Heithausen (Berlin: Springer Verlag), 379-386.
17. “Magnetized Turbulence,” Mac Low, M.-M. 2005, in *The Magnetized Plasma in Galaxy Evolution*, eds. K. T. Chyży, K. Otmianowska-Mazur, M. Soida, & R. J. Dettmar (Kraków: Jagiellonian U. Press), 41-47
18. “Gravoturbulent Star Cluster Formation,” Klessen, R. S., Ballesteros-Paredes, J., Li, Y., & Mac Low, M.-M. 2004, in *The Formation and Evolution of Massive Young Star Clusters*, eds. H. J. G. L. M. Lamers, L. J. Smith, & A. Nota (San Francisco: Astron. Soc. Pacific) 299-307.
19. “Stellar Mass Spectra from Non-Isothermal Gravoturbulent Fragmentation,” Klessen, R. S., Jappsen, A.-K., Larson, R. B., Li, Y., & Mac Low, M.-M. 2005, in *IMF50: The Stellar Initial Mass Function Fifty Years Later*, eds. E. Corbelli, F. Palla, & H. Zinnecker (Dordrecht: Kluwer), 363.
20. “Molecular Cloud Turbulence and Star Formation,” Ballesteros-Paredes, J., Klessen, R. S., Mac Low, M.-M., & Vázquez-Semadeni, E. 2007, in *Protostars & Planets V*, eds. B. Reipurth, D. Jewitt, & K. Keil (Tucson, AZ: U of Arizona Press), 63-80. (**refereed**)
21. “Galactic-scale star formation by gravitational instability,” Mac Low, M.-M., Li, Y., & Klessen, R. S. 2006, in *Triggered Star Formation in a Turbulent Interstellar Medium*, eds. B. G. Elmegreen, & J. Palouš (Cambridge, UK: Cambridge U. Press), in press

Conference Proceedings

1. “Numerical Models of Superbubble Dynamics,” Mac Low, M.-M., Norman, M. L., and McCray, R. 1988, in *Supernova Remnants in the Interstellar Medium*, eds. R. S. Roger and T. L. Landecker (Cambridge: Cambridge University Press), 461.
2. “Evolution of Magnetized Supershells,” Ferrière, K. M., Zweibel, E. G., Shull, J. M., and Mac Low, M.-M. 1990, in *Evolution of the Interstellar Medium*, ed. Leo Blitz, ASP Conference Series, Vol. 12 (San Francisco: Astronomical Society of the Pacific), 345.
3. “Massive Stellar Wind-Molecular Cloud Interactions,” Wood, D. O. S., Churchwell, E., Mac Low, M.-M., & Van Buren, D. 1991, in *Atoms, ions and molecules: New results in spectral line astrophysics*, ASP Conference Series vol. 16 (ASP: San Francisco), 153.
4. “MHD Shock Interactions with Interstellar Clouds,” Mac Low, M.-M., Klein, R. I., McKee, C. F., Stone, J. A., and Norman, M. L. 1992, in *Evolution of Interstellar Matter and Dynamics of Galaxies*, ed. J. Palouš, W. B. Burton, & P. O. Lindblad (Cambridge: Cambridge University Press), 93.

5. "Origin of Water Masers in W49N," Mac Low, M.-M., and Elitzur, M. 1992, in *Astrophysical Masers*, ed. G. Nedoluha and A. Clegg (New York: Springer), 172.
6. "Wind-Blown Bubbles in Ejecta Medium," García-Segura, G., and Mac Low, M.-M. 1992, in *Massive Stars: Their Lives in the Interstellar Medium*, eds. J. P. Cassinelli and E. B. Churchwell (San Francisco: Astronomical Society of the Pacific), 534.
7. "Wind-Blown Bubbles in Ejecta Medium," García-Segura, G., and Mac Low, M.-M. 1992, in *Star Formation, Galaxies and the Interstellar Medium*, ed. J. Franco, F. Ferrini, and G. Tenorio-Tagle (Cambridge: Cambridge University Press), 283.
8. "Nonlinear Growth of Dynamical Overstabilities in Blast Waves," Mac Low, M.-M. and Norman, M. L. 1992, in *Star Formation, Galaxies and the Interstellar Medium*, ed. J. Franco, F. Ferrini, and G. Tenorio-Tagle (Cambridge: Cambridge University Press), 254.
9. "Three-Wind Model for Wolf-Rayet Bubbles," García-Segura, G., and Mac Low, M.-M. 1993, in *Circumstellar Media in the Late Stages of Stellar Evolution*, ed. R. E. Clegg & I. R. Stevens (Cambridge: Cambridge University Press), in press.
10. "The Imprint of Massive Stellar Evolution on Circumstellar Gas," García-Segura, G., Mac Low, M.-M., and Langer, N. 1994, in *proceedings of the 163rd IAU Symposium*, ed. K. A. van der Hucht & P. M. Williams (Kluwer: Dordrecht), 72.
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