

# PUBLICATIONS

## Books

Cuntz, M., Veerabathina, N., & Gurdemir, L.: 2008, **Practical Universe: Observations, Experiments, Exercises** (with contributions from U.O. Herrmann & B.C. Thompson), Kendall/Hunt Publishing Company, Dubuque, Iowa, ISBN 978-0-7575-4633-4

## Refereed Publications

1. Cuntz, M.: 1987, "Episodic mass loss in late-type stars due to acoustic wave packets", *Astronomy and Astrophysics* **188**, L5
2. Cuntz, M., & Ulmschneider, P.: 1988, "A hydrodynamic code for the treatment of late-type stellar wind flows based on the method of characteristics", *Astronomy and Astrophysics* **193**, 119
3. Cuntz, M., & Muchmore, D.: 1989, "Time-dependent effects of acoustic wave heating and molecular cooling in the outer atmosphere of Arcturus", *Astronomy and Astrophysics* **209**, 305
4. Cuntz, M.: 1990, "Chromospheric extents predicted by time-dependent acoustic wave models", *Astrophysical Journal* **349**, 141
5. Cuntz, M.: 1990, "On the generation of mass loss in cool giant stars due to propagating shock waves", *Astrophysical Journal* **353**, 255
6. Cuntz, M., & Luttermoser, D.G.: 1990, "Stochastic shock waves as a candidate mechanism for the formation of the He I  $\lambda 10830$  line in cool giant stars", *Astrophysical Journal Letters* **353**, L39
7. Gail, H.-P., Cuntz, M., & Ulmschneider, P.: 1990, "Wave pressure in stellar atmospheres due to shock wave trains", *Astronomy and Astrophysics* **234**, 359
8. Rammacher, W., & Cuntz, M.: 1991, "Effects of Mg II and Ca II ionization on ab-initio solar chromosphere models", *Astronomy and Astrophysics* **250**, 212
9. Judge, P.G., Luttermoser, D.G., Neff, D.H., Cuntz, M., & Stencel, R.E.: 1993, "Line profile variations in M giants: clues to mass-loss and chromospheric heating mechanisms", *Astronomical Journal* **105**, 1973
10. Judge, P.G., & Cuntz, M.: 1993, "Chromospheric heating by acoustic shocks: a confrontation of GHRS observations of  $\alpha$  Tauri (K5 III) with ab initio calculations", *Astrophysical Journal* **409**, 776

11. Nieuwenhuijzen, H., de Jager, C., Cuntz, M., Lobel, A., & Achmad, L.: 1993, "A generalized version of the Rankine-Hugoniot relations including ionization, dissociation, radiation and related phenomena", *Astronomy and Astrophysics* **280**, 195; *Erratum* **343**, 661 [1999]
12. Nieuwenhuijzen, H., de Jager, C., & Cuntz, M.: 1994, "The shock strength in super- and hypergiant atmospheres derived from microturbulence data", *Astronomy and Astrophysics* **285**, 595
13. Cuntz, M., Rammacher, W., & Ulmschneider, P.: 1994, "Chromospheric heating and metal deficiency in cool giants: theoretical results versus observations", *Astrophysical Journal* **432**, 690
14. Cuntz, M., & Muchmore, D.O.: 1994, "The CO/SiO radiative instability in cool star atmospheres revisited", *Astrophysical Journal* **433**, 303
15. Sutmann, G., & Cuntz, M.: 1995, "Generation of mass loss in K giants: the failure of global oscillation modes and possible implications", *Astrophysical Journal Letters* **442**, L61
16. Cuntz, M.: 1996, "Chromospheric heating in late-type stars: evidence for magnetic and non-magnetic surface structure", in *Stellar Surface Structure*, Proc. IAU Symposium 176, eds. K.G. Strassmeier and J.L. Linsky (Dordrecht: Kluwer), p. 393
17. Cuntz, M., Deeney, B.D., Brown, A., & Stencel, R.E.: 1996, "Short-term chromospheric variability in  $\alpha$  Tauri (K5 III): results from IUE time series observations", *Astrophysical Journal* **464**, 426
18. Cuntz, M., & Dorfi, E.A.: 1997, "Stochastic processes and the origin of stellar winds", in *Cosmic Winds and the Heliosphere*, eds. J.R. Jokipii, C.P. Sonett, and M.S. Giampapa, Space Science Series (Tucson: The University of Arizona Press), p. 485
19. Theurer, J., Ulmschneider, P., & Cuntz, M.: 1997, "Acoustic wave propagation in the solar atmosphere. IV. Nonadiabatic wave excitation with frequency spectra", *Astronomy and Astrophysics* **324**, 587
20. Cuntz, M.: 1997, "Chromospheric velocity fields in  $\alpha$  Orionis (M2 Iab) generated by stochastic shocks", *Astronomy and Astrophysics* **325**, 709
21. Cuntz, M., Ulmschneider, P., & Musielak, Z.E.: 1998, "Self-consistent and time-dependent magnetohydrodynamic chromosphere models for magnetically active stars", *Astrophysical Journal Letters* **493**, L117
22. Buchholz, B., Ulmschneider, P., & Cuntz, M.: 1998, "Basal heating in main-sequence stars and giants: results from monochromatic acoustic wave models", *Astrophysical Journal* **494**, 700
23. Fawzy, D.E., Ulmschneider, P., & Cuntz, M.: 1998, "The heating of solar magnetic flux tubes. I. Adiabatic longitudinal tube waves", *Astronomy and Astrophysics* **336**, 1029
24. Cuntz, M., Rammacher, W., Ulmschneider, P., Musielak, Z.E., & Saar, S.H.: 1999, "Two-component chromosphere models for K dwarfs of different magnetic activity: exploring the Ca II emission — stellar rotation relationship", *Astrophysical Journal* **522**, 1053

25. Cuntz, M.: 1999, "Properties of longitudinal flux tube waves. I. Shock amplitude relations", *Astronomy and Astrophysics* **350**, 1100
26. Cuntz, M., Saar, S.H., & Musielak, Z.E.: 2000, "On stellar activity enhancement due to interactions with extrasolar giant planets", *Astrophysical Journal Letters* **533**, L151
27. Cuntz, M., & Suess, S.T.: 2001, "Shock formation of slow magnetosonic waves in coronal plumes", *Astrophysical Journal Letters* **549**, L143
28. Saar, S.H., & Cuntz, M.: 2001, "A search for Ca II emission enhancement in stars resulting from nearby giant planets", *Monthly Notices of the Royal Astronomical Society* **325**, 55
29. Cuntz, M., Harper, G.M., & Bennett, P.D.: 2001, "What can HST-GHRS Fe II observations of  $\alpha$  Ori (M2 Iab) tell us about short-period heating?", *Astronomy and Astrophysics* **376**, 154
30. Noble, M., Musielak, Z.E., & Cuntz, M.: 2002, "Orbital stability of terrestrial planets inside the habitable zones of extrasolar planetary systems", *Astrophysical Journal* **572**, 1024
31. Cuntz, M., & Shkolnik, E.: 2002, "Chromospheres, flares and exoplanets", *Astronomical Notes* **323**, 387
32. Cuntz, M., von Bloh, W., Bounama, C., & Franck, S.: 2003, "On the possibility of Earth-type habitable planets around 47 UMa", *Icarus* **162**, 214
33. Franck, S., Cuntz, M., von Bloh, W., & Bounama, C.: 2003, "The habitable zone of Earth-mass planets around 47 UMa: results for land and water worlds", *International Journal of Astrobiology* **2**, 35
34. Rammacher, W., & Cuntz, M.: 2003, "Acoustic heating models for the basal flux star  $\tau$  Ceti including time-dependent ionization: results for Ca II and Mg II emission", *Astrophysical Journal Letters* **594**, L51
35. Von Bloh, W., Cuntz, M., Franck, S., & Bounama, C.: 2003, "On the possibility of Earth-type habitable planets in the 55 Cancri system", *Astrobiology* **3**, 681
36. Cuntz, M.: 2004, "Properties of longitudinal flux tube waves. II. Limiting shock strength behavior", *Astronomy and Astrophysics* **420**, 699
37. Cuntz, M., & Suess, S.T.: 2004, "Properties of longitudinal flux tube waves. III. Wave propagation in solar and stellar wind flows", *Astronomy and Astrophysics* **424**, 1003
38. O'Neal, D., Neff, J.E., Saar, S.H., & Cuntz, M.: 2004, "Further results of TiO-band observations of starspots", *Astronomical Journal* **128**, 1802
39. Musielak, Z.E., Cuntz, M., Marshall, E.A., & Stuit, T.D.: 2005, "Stability of planetary orbits in binary systems", *Astronomy and Astrophysics* **434**, 355; *Erratum* **480**, 573 [2008]
40. Rammacher, W., & Cuntz, M.: 2005, "Definition and significance of average temperatures in time-dependent solar chromosphere models", *Astronomy and Astrophysics* **438**, 721

41. Schröder, K.-P., & Cuntz, M.: 2005, “A new version of Reimers’ law of mass loss based on a physical approach”, *Astrophysical Journal Letters* **630**, L73
42. Cuntz, M.: 2006, “Solar coronal plumes: theoretical concepts and results”, in *Advances in Geosciences*, Vol. 2: Solar Terrestrial, eds. M. Duldig, P.K. Manoharan, A.W. Yau, and Q.-G. Zong (Singapore: World Scientific), p. 21
43. Hathaway, D.H., Williams, P.E., & Cuntz, M.: 2006, “Supergranule superrotation identified as a projection effect”, *Astrophysical Journal* **644**, 598
44. Cuntz, M., Rammacher, W., & Musielak, Z.E.: 2007, “Acoustic heating of the solar chromosphere: present indeed and locally dominant”, *Astrophysical Journal Letters* **657**, L57
45. Schröder, K.-P., & Cuntz, M.: 2007, “A critical test of empirical mass loss formulas applied to individual giants and supergiants”, *Astronomy and Astrophysics* **465**, 593
46. Williams, P.E., Hathaway, D.H., & Cuntz, M.: 2007, “Solar Rossby wave “hills” identified as supergranules”, *Astrophysical Journal Letters* **662**, L135
47. Cuntz, M., Eberle, J., & Musielak, Z.E.: 2007, “Stringent criteria for stable and unstable planetary orbits in stellar binary systems”, *Astrophysical Journal Letters* **669**, L105
48. Von Bloh, W., Bounama, C., Cuntz, M., & Franck, S.: 2007, “The habitability of super-Earths in Gliese 581”, *Astronomy and Astrophysics* **476**, 1365
49. Eberle, J., Cuntz, M., & Musielak, Z.E.: 2008, “The instability transition for the restricted 3-body problem. I. Theoretical approach”, *Astronomy and Astrophysics* **489**, 1329
50. Von Bloh, W., Cuntz, M., Schröder, K.-P., Bounama, C., & Franck, S.: 2008, “Habitability of super-Earth planets around other suns: models including red giant branch evolution”, *Astrobiology*, submitted

## Invited Reviews

1. Cuntz, M., & Stencel, R.E.: 1991, “What can observations of giants and supergiant stars tell us about chromospheric and coronal heating?”, in *Mechanisms of Chromospheric and Coronal Heating*, eds. P. Ulmschneider, E.R. Priest, and R. Rosner (Berlin: Springer), p. 206
2. Cuntz, M.: 1992, “Stochastic stellar wind models: evolved stars”, in *Cool Stars, Stellar Systems, and the Sun*, Proc. Seventh Cambridge Workshop, eds. M.S. Giampapa and J.A. Bookbinder, *A. S. P. Conference Series*, Vol. **26**, p. 383
3. Cuntz, M.: 1996, “Chromospheric heating in late-type stars: evidence for magnetic and non-magnetic surface structure”, in *Stellar Surface Structure*, Proc. IAU Symposium 176, eds. K.G. Strassmeier and J.L. Linsky (Dordrecht: Kluwer), p. 393 **(Also Refereed Paper)**
4. Cuntz, M., & Dorfi, E.A.: 1997, “Stochastic processes and the origin of stellar winds”, in *Cosmic Winds and the Heliosphere*, eds. J.R. Jokipii, C.P. Sonett, and M.S. Giampapa, Space Science Series (Tucson: The University of Arizona Press), p. 485 **(Also Refereed Paper)**

5. Cuntz, M.: 1999, “Two-component chromosphere models: observations versus simulations”, in *Solar and Stellar Activity: Similarities and Differences*, eds. C.J. Butler and J.G. Doyle, *A. S. P. Conference Series*, Vol. **158**, p. 273
6. Joy, M.K., Shipley, A.F., Cash, W.C., Carter, J.M., Zissa, D.E., & Cuntz, M.: 2000, “Experimental results from a grazing incidence X-ray interferometer”, in *X-Ray Optics, Instruments, and Missions III*, eds. J.E. Trümper and B. Aschenbach, Proceedings SPIE, Vol. **4012**, p. 270
7. Brown, A., Harper, G., Bennett, P.D., Baade, R., Kirsch, T., Schröder, K.-P., Dumm, T., & Cuntz, M.: 2001, “Understanding the role of binarity on mass loss and atmospheric structure in detached systems”, in *Cool Stars, Stellar Systems, and the Sun*, Proc. Eleventh Cambridge Workshop, eds. R.J. García López, R. Rebolo, and M.R. Zapatero Osorio, *A. S. P. Conference Series*, Vol. **223**, p. 411
8. Cuntz, M., & Shkolnik, E.: 2002, “Chromospheres, flares and exoplanets”, *Astronomical Notes* **323**, 387 (**Also Refereed Paper**)
9. Saar, S.H., Cuntz, M., & Shkolnik, E.: 2004, “Stellar activity enhancement by planets: theory and observations”, in *Stars as Suns: Activity, Evolution and Planets*, Proc. IAU Symposium 219, eds. A.K. Dupree and A.O. Benz (San Francisco: Astr. Soc. Pac.), p. 355
10. Cuntz, M.: 2006, “Solar coronal plumes: theoretical concepts and results”, in *Advances in Geosciences*, Vol. 2: Solar Terrestrial, eds. M. Duldig, P.K. Manoharan, A.W. Yau, and Q.-G. Zong (Singapore: World Scientific), p. 21 (**Also Refereed Paper**)

## Contributed Publications in Conference Proceedings

1. Cuntz, M., Hartmann, L., & Ulmschneider, P.: 1987, “Acoustic wave driven mass loss in late-type giant stars”, in *Circumstellar Matter*, Proc. IAU Symposium 122, eds. I. Appenzeller and C. Jordan (Dordrecht: Reidel), p. 325
2. Cuntz, M.: 1988, “Acoustic wave driven episodic mass loss”, quoted in: Summary by M. Hack and L.A. Willson of Selected Short Contributions on Cool Stars, in *Pulsation and Mass Loss in Stars*, Proc. Fourth Trieste Workshop, eds. L. A. Willson and R. Stalio (Dordrecht: Reidel), p. 73
3. Cuntz, M., & Muchmore, D.: 1989, “Inhomogeneous chromospheric structures in the atmosphere of Arcturus generated by acoustic wave propagation”, in *Solar and Stellar Granulation*, Proc. Third International Workshop of the OAC, eds. R.J. Rutten and G. Severino (Dordrecht: Reidel), p. 547
4. Cuntz, M., & Judge, P.G.: 1990, “How consistent are ab-initio models of giant star chromospheres with observations?”, in *Cool Stars, Stellar Systems, and the Sun*, Proc. Sixth Cambridge Workshop, ed. G. Wallerstein, *A. S. P. Conference Series*, Vol. **9**, p. 61

5. Cuntz, M., & Luttermoser, D.G.: 1990, "The He I  $\lambda$ 10830 line in Arcturus produced by stochastic shocks", in *Cool Stars, Stellar Systems, and the Sun*, Proc. Sixth Cambridge Workshop, ed. G. Wallerstein, *A. S. P. Conference Series*, Vol. **9**, p. 142
6. Cuntz, M.: 1992, "Stellar wind flows in M-type supergiants produced by stochastic shock waves", in *Instabilities in Evolved Super- and Hypergiants*, eds. C. de Jager and H. Nieuwenhuijzen (Amsterdam: North Holland Publishers), p. 133
7. Cuntz, M., & Stencel, R.E.: 1992, "A new paradigm of stellar evolution including detailed mass loss processes", in *Instabilities in Evolved Super- and Hypergiants*, eds. C. de Jager and H. Nieuwenhuijzen (Amsterdam: North Holland Publishers), p. 182 — Partly also published in: *Newsletter of Chemically Peculiar Red Giant Stars*, ed. S. Yorke, No. **10**, June 1991
8. Cuntz, M., & Stencel, R.E.: 1992, "A stellar evolution paradigm based on specific mass loss and feedback modes", in *Cool Stars, Stellar Systems, and the Sun*, Proc. Seventh Cambridge Workshop, eds. M.S. Giampapa and J.A. Bookbinder, *A. S. P. Conference Series*, Vol. **26**, p. 451
9. Cuntz, M.: 1992, "Chromospheric heating in cool stars", in *Stellar Chromospheres, Coronae and Winds*, Proc. CCP7/IoA Workshop, eds. C.S. Jeffrey and R.E.M. Griffin (Cambridge: University Printing Service), p. 3
10. Cuntz, M., & Ulmschneider, P.: 1994, "Effects of metallicity on chromospheric emission in cool giants: results from acoustic wave models", in *Cool Stars, Stellar Systems, and the Sun*, Proc. Eighth Cambridge Workshop, ed. J.-P. Caillault, *A. S. P. Conference Series*, Vol. **64**, p. 368
11. Cuntz, M., & Muchmore, D.O.: 1994, "Radiative instabilities in cool star atmospheres: effects due to CO and SiO molecules", in *Cool Stars, Stellar Systems, and the Sun*, Proc. Eighth Cambridge Workshop, ed. J.-P. Caillault, *A. S. P. Conference Series*, Vol. **64**, p. 611
12. Cuntz, M., Deeney, B.D., Brown, A., & Stencel, R.E.: 1995, "Short-term Mg II flux variations in  $\alpha$  Tauri (K5 III): results from recent IUE data sets", in *Stellar Surface Structure*, Poster Proc. IAU Symposium 176, ed. K.G. Strassmeier, Inst. for Astronomy, Univ. of Vienna, p. 162
13. Cuntz, M.: 1998, "UV spectroscopy of  $\alpha$  Ori (M2 Iab) and implications regarding heating mechanisms", in *The Scientific Impact of the Goddard High Resolution Spectrograph*, eds. J.C. Brandt, T.B. Ake III, and C.C. Petersen, *A. S. P. Conference Series*, Vol. **143**, p. 356
14. Cuntz, M., Ulmschneider, P., Rammacher, W., Musielak, Z.E., & Saar, S.H.: 2001, "Self-consistent magnetic / acoustic chromosphere models of late-type stars", in *Cool Stars, Stellar Systems, and the Sun*, Eleventh Cambridge Workshop, eds. R.J. García López, R. Rebolo, and M.R. Zapatero Osorio, *A. S. P. Conference Series*, Vol. **223**, CD-913
15. Cuntz, M., Musielak, Z.E., & Saar, S.H.: 2001, "Analyzing the effects of planets and brown dwarfs on stellar chromospheric and coronal activity", in *Cool Stars, Stellar Systems, and the Sun*, Eleventh Cambridge Workshop, eds. R.J. García López, R. Rebolo, and M.R. Zapatero Osorio, *A. S. P. Conference Series*, Vol. **223**, CD-1528

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17. Von Bloh, W., Cuntz, M., Bounama, C., & Franck, S.: 2003, "The habitable zone of Earth-like planets around 47 UMa", in *Second European Workshop on Exo-/Astrobiology*, ed. H. Lacoste, ESA SP-518, Noordwijk, The Netherlands, p. 413
18. Cuntz, M., & Suess, S.T.: 2003, "Shock formation and energy dissipation of slow magnetosonic waves in coronal plumes", in *Cool Stars, Stellar Systems, and the Sun*, Twelfth Cambridge Workshop, eds. A. Brown, G.M. Harper, and T.R. Ayres, p. 624 — Available at: <http://origins.colorado.edu/cs12/>
19. Franck, S., Cuntz, M., von Bloh, W., & Bounama, C.: 2003, "The habitable zone of Earth-mass planets around 47 UMa", in *New Geometry of Nature*, Vol. III, Astronomy, Education, Philosophy, Proc. Joint Int. Scientific Conf., eds. A.V. Gusev, N.K. Petrova, and D.A. Temnikov, Kazan State University, Kazan, Russia, p. 59
20. Franck, S., von Bloh, W., Bounama, C., & Cuntz, M.: 2004, "Habitability and stability of orbits for Earth-like planets in the extrasolar system 47 UMa", in *Order and Chaos in Stellar and Planetary Systems* (AGAVA 2003, St. Petersburg, Russia), eds. G.G. Byrd, K.V. Kholshchevnikov, A.A. Myllari, I.I. Nikiforov, and V.V. Orlov, *A. S. P. Conference Series*, Vol. **316**, p. 149
21. Telleschi, A., Güdel, M., Arzner, K., Briggs, K., Audard, M., Ness, J.-U., Mewe, R., Raassen, A.J., Skinner, S.L., Cuntz, M., & Saar, S.: 2004, "Coronal X-ray spectroscopy of solar analogs", in *Stars as Suns: Activity, Evolution and Planets*, Proc. IAU Symposium 219, eds. A.K. Dupree and A.O. Benz (San Francisco: Astr. Soc. Pac.), CD-930
22. O'Neal, D., Saar, S.H., Neff, J.E., & Cuntz, M.: 2005, "Exploring the use of VO to diagnose spot properties on M dwarfs", in *Cool Stars, Stellar Systems, and the Sun*, Proc. Thirteenth Cambridge Workshop, eds. F. Favata, G.A.J. Hussain, and B. Battrick, ESA SP-560, Vol. II, p. 853
23. Rammacher, W., & Cuntz, M.: 2005, "Time-dependent ionization in solar magnetic flux tubes", in *Cool Stars, Stellar Systems, and the Sun*, Proc. Thirteenth Cambridge Workshop, eds. F. Favata, G.A.J. Hussain, and B. Battrick, ESA SP-560, Vol. II, p. 891
24. Saar, S.H., Kashyap, V.L., Cuntz, M., Shkolnik, E., & Hall, J.: 2007, "Planet-induced X-ray activity in the HD 179949 system", in *Cool Stars, Stellar Systems, and the Sun*, Proc. Fourteenth Cambridge Workshop, in press
25. Saar, S.H., Cuntz, M., Kashyap, V.L., & Hall, J.C.: 2008, "First observation of planet-induced X-ray emission: the system HD 179949", in *Exoplanets: Detection, Formation & Dynamics*, Proc. IAU Symposium 249, eds. Y.-S. Sun, S. Ferraz-Mello, and J.-L. Zhou (Cambridge: Cambridge University Press), p. 79

26. Cuntz, M., Gurdemir, L., Guinan, E.F., & Kurucz, R.L.: 2008, “Astrobiological effects of F, G, K and M main-sequence stars”, in *Exoplanets: Detection, Formation & Dynamics*, Proc. IAU Symposium 249, eds. Y.-S. Sun, S. Ferraz-Mello, and J.-L. Zhou (Cambridge: Cambridge University Press), p. 203
27. Von Bloh, W., Bounama, C., Cuntz, M., & Franck, S.: 2008, “Habitability of super-Earths: Gliese 581c & 581d”, in *Exoplanets: Detection, Formation & Dynamics*, Proc. IAU Symposium 249, eds. Y.-S. Sun, S. Ferraz-Mello, and J.-L. Zhou (Cambridge: Cambridge University Press), p. 503
28. Eberle, J., Cuntz, M., & Musielak, Z.E.: 2008, “Orbital stability of planets in binary systems: a new look at old results”, in *Exoplanets: Detection, Formation & Dynamics*, Proc. IAU Symposium 249, eds. Y.-S. Sun, S. Ferraz-Mello, and J.-L. Zhou (Cambridge: Cambridge University Press), p. 507
29. Cuntz, M., Gurdemir, L., Guinan, E.F., & Kurucz, R.L.: 2008, “Astrobiology in the environments of main-sequence stars: effects of photospheric radiation”, in *Bioastronomy 2007: Molecules, Microbes and Extraterrestrial Life*, eds. K. Meech, M. Mumma, J. Siefert, and D. Werthimer, *A. S. P. Conference Series*, Vol. ???, submitted
30. Eberle, J., Cuntz, M., & Musielak, Z.E.: 2008, “Orbital stability of Earth-type planets in binary systems”, in *Bioastronomy 2007: Molecules, Microbes and Extraterrestrial Life*, eds. K. Meech, M. Mumma, J. Siefert, and D. Werthimer, *A. S. P. Conference Series*, Vol. ???, submitted

## Abstracts

31. Cuntz, M.: 1987, “Episodic mass loss in late-type stars due to acoustic wave packets”, in *Solar and Stellar Physics*, Fifth European Meeting on Solar Physics, Abstract Booklet, P84
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33. Cuntz, M., & Judge, P.G.: 1989, “Radiative transfer in ab-initio chromospheric models”, in *Bulletin of the A.A.S.* **21** (4), 19.04, *Washington D.C. Meeting*
34. Stencel, R.E., Brown, A., Carpenter, K.G., Cuntz, M., & Judge, P.G.: 1992, “The search for acoustically-driven mass-loss in evolved stars”, in *Bulletin of the A.A.S.* **24** (4), 36.03, *Phoenix Meeting*
35. Cuntz, M.: 1993, “Propagation of radial pulsation modes in the outer atmosphere of Arcturus: first results”, in *New Perspectives on Stellar Pulsation & Pulsating Variable Stars*, Proc. IAU Colloquium 139, eds. J.M. Nemec and J.M. Matthews (Cambridge: Cambridge University Press), p. 283
36. Cuntz, M., Ulmschneider, P., & Musielak, Z.E.: 1997, “First time-dependent MHD heating models for chromospheres of magnetically active stars”, in *Cool Stars, Stellar Systems, and the Sun*, Tenth Cambridge Workshop, Abstract Book, p. 60
37. Cuntz, M., Musielak, Z.E., & Ulmschneider, P.: 1997, “Self-consistent and time-dependent MHD heating models for chromospheres of magnetically active stars”, *Bulletin of the A.A.S.*, **29** (4), 12.05, *Washington D.C. Meeting*

38. Musielak, Z.E., Cuntz, M., Ulmschneider, P., Theurer, J., & Kurucz, R.: 1997, “Acoustic and MHD wave energy fluxes for late-type stars”, *Bulletin of the A.A.S.*, **29** (4), 12.06, *Washington D.C. Meeting*
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40. Cuntz, M., Musielak, Z.E., Ulmschneider, P., Rammacher, W., & Saar, S.H.: 1998, “Two-component chromosphere models for K dwarf stars: the chromospheric emission — stellar rotation relationship”, *Bulletin of the A.A.S.*, **30** (4), 44.02, *Austin Meeting*
41. Cuntz, M., & Suess, S.T.: 2000, “Shock formation of slow magnetosonic waves in coronal plumes”, *UVCS/SOHO 2000 Science Meeting*, Northeast Harbor, Maine
42. Germany, G.A., Wu, S.T., Richards, P.G., Wang, A.-H., Zhang, T.X., Wu, X.Y., & Cuntz, M.: 2000, “Correlation between solar wind and activity indices: Is it sufficient to estimate ionospheric response to solar disturbances?”, *EOS Trans. AGU*, Fall Meeting Suppl., 81, F1049
43. Noble, M., Musielak, Z.E., & Cuntz, M.: 2001, “Orbital stability of Earth-like planets in stellar habitable zones”, *Bulletin of the A.A.S.*, **33** (4), 3.10, *Washington D.C. Meeting*
44. Cuntz, M., Noble, M., & Musielak, Z.E.: 2001, “Habitability and orbital stability of terrestrial planets around 47 UMa”, *Bulletin of the A.A.S.*, **33** (4), 33.05, *Washington D.C. Meeting*
45. Cuntz, M.: 2002, “Tidal interaction and magnetic interaction between giant planets and their host stars”, in *Astrophysical Tides: Effects in the Solar and Exoplanetary Systems*, IAU Colloquium 189, Abstract Booklet
46. Cuntz, M., Rammacher, W., Ulmschneider, P., & Saar, S.H.: 2003, “Acoustic heating models for the flat activity star  $\tau$  Ceti”, in Abstract Book, International Astronomical Union, 25th General Assembly, Symposium 219, Poster 599
47. Cuntz, M., von Bloh, W., Franck, S., & Bounama, C.: 2003, “Orbital stability and habitability in the 55 Cancri system”, in Abstract Book, International Astronomical Union, 25th General Assembly, Symposium 219, Poster 600
48. Musielak, Z.E., & Cuntz, M.: 2003, “Stability of planetary orbits in binary systems”, in Abstract Book, International Astronomical Union, 25th General Assembly, Symposium 219, Poster 688
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