

List of Publications

Peter H. Hauschildt

1 Publications in refereed journals:

1. Hauschildt, P.H., Wehrse, R., Shaviv, G.: 1989, *Theoretical models for the continuum and colors of SN 1979C and SN 1980K*, *Astron. Astrophys.*, **210**, 262
2. Hauschildt, P.H., Wehrse, R., Shaviv, G.: 1989, *An atlas of calculated continuum energy distributions for supernovae of type II*, *Astron. Astrophys. Suppl.*, **77**, 115
3. Hauschildt, P.H., Wehrse, R.: 1991, *Solution of the special relativistic equation of radiative transfer in rapidly expanding spherical shells*, *J. Quant. Spec. Rad. Transf.*, **46**, 81
4. Hauschildt, P.H., Best, M., Wehrse, R.: 1991, *Relativistic effects in supernova photospheres*, *Astron. Astrophys.*, **247**, L21
5. Best, M., Hauschildt, P.H., Wehrse, R., Shaviv, G.: 1991, *Model atmospheres for SNe II during early stages*, *Ann. Phys. Fr.*, **16**, p. 397–411
6. Hauschildt, P.H.: 1992, *A fast operator perturbation method for the solution of the special relativistic equation of radiative transfer in spherical symmetry*, *J. Quant. Spec. Rad. Transf.*, **47**, p. 433–453
7. Hauschildt, P.H., Wehrse, R., Starrfield, S., Shaviv, G.: 1992, *Spherically symmetric, expanding, NLTE model atmospheres for novae during their early stages*, *Astrophys. J.*, **393**, p. 307–328
8. Hauschildt, P.H.: 1992, *Radiative Equilibrium in Rapidly Expanding Shells*, *Astrophys. J.*, **398**, p. 224–233
9. Hauschildt, P.H.: 1993, *Multi level non-LTE radiative transfer in expanding shells*, *J. Quant. Spec. Rad. Transf.*, **50**, 301–318
10. Baron, E., Hauschildt, P.H., Branch, D., Wagner, R.M., Austin, S.J., Filippenko, A.V., Matheson, T.: 1993, *Interpretation of the Early Spectra of Supernova 1993J in M81*, *Astrophys. J. Lett.*, **416**, 21–23
11. Hauschildt, P.H., Starrfield, S., Austin, S., Wagner, R.M., Shore, S.N., Sonneborn: 1994, *Non-LTE Model Atmosphere Analysis of Nova Cygni 1992*, *Astrophys. J.*, **422**, 831
12. Hauschildt, P.H., Ensmann, L.M.: 1994, *Analysis of the early spectra and light curve of SN1987A*, *Astrophys. J.*, **424**, 905
13. Buchholz, B., Hauschildt, P.H., Rammacher, W., Ulmschneider, P.: 1994, *An operator perturbation method for atmospheres with shocks*, *Astron. Astrophys.*, **285**, 987-994
14. Baron, E., Hauschildt, P.H., Branch, D.: 1994, *Modeling and Interpretation of the Optical and HST UV Spectrum of Supernova 1993J*, *Astrophys. J.*, **426**, 334
15. Störzer, H., Hauschildt, P.H.: 1994, *EUV energy distributions of accretion disks in AGN*, *Astron. Astrophys.*, **289**, 45
16. Hauschildt, P.H., Störzer, H., Baron, E.: 1994, *Convergence properties of the accelerated Λ -iteration method for the solution of radiative transfer problems*, *J. Quant. Spec. Rad. Transf.*, **51**, 875
17. Allard, F., Hauschildt, P.H., S. Miller, J. Tennyson: 1994, *The influence of H₂O line blanketing on the spectra of cool dwarf stars*, *Astrophys. J. Lett.*, **426**, L39

18. Shore, S. N., Starrfield, S., Gonzales-Riestra, R., Hauschildt, P.H., Sonneborn, G.: 1994, *Ultraviolet detection of dust formation in Novae Cassiopeiae 1993*, *Nature*, **369**, 539
19. Hauschildt, P.H., Starrfield, S., Shore, S. N., Gonzales-Riestra, R., Sonneborn, G., Allard, F.: 1994, *The Early Spectral Evolution of Nova Cassiopeiae 1993*, *AJ*, **108**, 1008–1015
20. Störzner, H., Hauschildt, P.H., Allard, F.: 1994, *NLTE effects on the strengths of the Lyman edge in Quasar accretion disks*, *Astrophys. J. Lett.*, **437**, L91
21. Beck, H. K. B., Hauschildt, P.H., Gail, H.-P., Sedlmayr, E.: 1995, *Ionization and temperature of nova shells: II. The influence of realistic photospheric radiation fields*, *Astron. Astrophys.*, **294**, 195–205
22. Baron, E., Hauschildt, P.H., Branch, D., Austin, S., Garnavich, P., Ann, Hong Bae, Wagner, R. M., Filippenko, A. V., Matheson, T., Liebert, J.: 1995, *NLTE Spectral Analysis and Model Constraints on Supernova 1993J*, *Astrophys. J.*, **441**, 170–182
23. Alexander, D.R., Allard, F., Tamanai, A., Hauschildt, P. H.: 1997, *Grain Formation in Atmospheres of Cool Dwarfs*, *Ap&SS*, **251**, 171
24. Nugent, P., Baron, E., Hauschildt, P.H., Branch, D.: 1995, *Spectrum Synthesis of the Type Ia SNe 1992A and 1981B*, *Astrophys. J. Lett.*, **441**, L33-36
25. Allard, F., Hauschildt, P.H.: 1995, *Model Atmospheres for M (Sub)Dwarfs: I. The base model grid*, *Astrophys. J.*, **445**, 433–450
26. Baron, E., Hauschildt, P.H., Young, T. R.: 1995, *Supernova 1993J: One year later*, *Phys. Repts.*, **256**, 33
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28. Baraffe, I., Chabrier, G., Allard, F., Hauschildt, P.H.: 1995, *New evolutionary tracks for very-low-mass stars*, *Astrophys. J. Lett.*, **446**, L35-L38
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32. Jones, H. R. A., Longmore, A. J., Allard, F., Hauschildt, P.H., Miller, S., Tennyson, J.: 1995, *Water vapour in cool dwarf stars*, *MNRAS*, **277**, 767
33. Nugent, P., Phillips, M., Baron, E., Branch, D., Hauschildt, P.H.: 1995, *Evidence for a Spectroscopic Sequence among SNe Ia*, *ApJ*, **455**, L147–L150
34. Baron, E., Hauschildt, P.H., Mezzacappa, A.: 1996, *Radiative Transfer in the Co-Moving Frame*, *MNRAS*, **278**, 763-772
35. Hauschildt, P.H., Starrfield, S., Baron, E., Allard, F.: 1996, *The Hot Winds of Novae*, in *Proceedings IAU Conference 152, "Astrophysics in the Extreme Ultraviolet"*, Eds. S. Bowyer & R. F. Malina, *Kluwer Academic Publishers*, pp. 413–417
36. Baron, E., Hauschildt, P.H., Branch, D., Kirshner, R. P., Filippenko, A. V.: 1996, *Preliminary Spectral Analysis of SN 1994I*, *MNRAS*, **279**, 170
37. Leggett, S. K., Allard, F., Berriman, G., Dahn, C. C., Hauschildt, P.H.: 1996, *Infrared Spectra of low-mass stars: Towards a temperature scale for red dwarfs*, *ApJS*, **104**, 117–143

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42. Schmidtke, P.C., Cowley, A.P., Hauschildt, P.H., Ponder, A.L., McGrath, T.K., Frattare, L.M., Franklin, B.E.: 1996, *UV Observations of Three LMC Be-Star/X-ray Binaries*, *PASP*, **108**, 668–671
43. Baron, E., Hauschildt, P.H., Nugent, P., Branch, D.: 1996, *NLTE Effects in Modeling of Supernovae near Maximum Light*, *MNRAS*, **283**, 297–315
44. Schweitzer, A., Hauschildt, P.H., Allard, F., Basri, G.: 1996, *Analysis of Keck High Resolution Spectra of VB10*, *MNRAS*, **283**, 821–829
45. Schwarz, G. J., Hauschildt, P.H., Starrfield, S., Baron, E., Allard, F., Shore, S. N., Sonneborn, G.: 1997, *Non-LTE model atmosphere analysis of the early ultraviolet spectra of nova Andromedae 1986*, *MNRAS*, **284**, 669–684
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48. Nugent, P., Baron, E., Branch, D., Fisher, A., Hauschildt, P.H.: 1997, *Synthetic Spectra of Hydrodynamic Models of Type Ia Supernovae*, *ApJ*, **485**, 812–819
49. Baraffe, I., Chabrier, G., Allard, F., Hauschildt, P.H.: 1997, *Evolutionary models for metal-poor low-mass stars. Lower main sequence of globular clusters and halo field stars.*, *A&A*, **327**, 1054
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51. Schwarz, G.J., Starrfield, S., Shore, S.N., Hauschildt, P.H.: 1997, *Abundance Analysis of the slow nova PW Vulpeculae 1984*, *MNRAS*, **290**, 75
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53. Viti, S., Jones, H. R. A., Schweitzer, A., Allard, F., Hauschildt, P.H., Tennyson, J., Miller, S., Longmore, A.: 1997, *The effective temperature and metallicity of CM Draconis*, *MNRAS*, **291**, 780
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