

CURRICULUM VITAE

TOBIAS J. KREIDL

EDUCATION

Ph.D., University of Vienna, Austria, 1979 (astronomy).

CURRENT POSITION

1998– : System Programmer, Principal (Team LEad), Northern Arizona University
1997–1998: Systems Analyst, Principal, Northern Arizona University
1995–1997: Systems Analyst, Senior, Northern Arizona University
1994–1995: Systems Analyst, Northern Arizona University
1988– : Adjunct Faculty, Northern Arizona University

PREVIOUS EXPERIENCE

1979–1980: Research Assistant, Ruhr University, Bochum, Germany
1980–1993: Astronomer, Lowell Observatory
1990–1993: Computer Systems Manager, Lowell Observatory
1993–1994: Computer Systems Manager/Research Scientist,
Planetary Science Institute

CONSULTANTSHIPS

February/March 1984: Space Telescope Science Institute
1992-1996: Hubble Space Telescope WF/PC Imaging Team
February 1993: Planetary Science Institute
April 1994: Goddard Space Flight Center, NASA RSD Program committee

PROFESSIONAL SOCIETIES

American Astronomical Society
Division for Planetary Sciences
International Astronomical Union
DECUS
USENIX

PUBLICATIONS – TOBIAS J. KREIDL

- 1) P. L. Fischer, P. Jackson, and T. J. Kreidl, “Photographische Positionen der Kometen Kohoutek (1973f) und Bradfield (1974b).” *Geowissenschaftliche Mitteilungen* **7**, 177–191 (1975).
- 2) P. L. Fischer, P. Jackson, and T. J. Kreidl, “Photographische Positionen des 3) Kometen Kobayashi-Berger-Milon (1975h).” *Anzeiger der math.-naturw. Klasse der österreichischen Akademie der Wissenschaften* **2**, 13–21 (1977). (See also *IAU Circular* No. 2950.)
- 4) T. J. Kreidl, “Eine erweiterte Reduktionsmethode zur Auswertung von Messungen an engen visuellen Doppelsternen.” Ph.D. Thesis, University of Vienna, Austria (1978).
- 5) K. Rakos, R. Albrecht, H. Jenkner, T. Kreidl, R. Michalke, D. Oberlerchner, E. Santos, A. Schnell, and W. Weiss, “Photometric and Astrometric Observations of Close Visual Binaries.” In *Modern Astrometry, IAU Colloquium No. 48* (F. V. Prochazka and R. H. Tucker, eds.), pp. 85–90 (1978).
- 6) W. W. Weiss and T. J. Kreidl, editors, *Ap-Stars in the Infrared – Workshop, October 9–10, 1978*. Institute for Astronomy, Vienna, Austria (1979).
- 7) T. Kreidl, M. Buchholz and Ch. Winkler, “Image Processing at the Astronomical Institute of the Ruhr-Universität Bochum.” *ESO Messenger* **19**, 21–25 (1979).
- 8) W. W. Weiss and T. J. Kreidl, “ β Photometry of Przybylski’s Star, A Comparison of Period Determination Methods.” *Astron. Astrophys.* **81**, 59–65 (1980).
- 9) T. Kreidl, J. Kozok and M. Buchholz, “The Image Processing System at the Astronomical Institute of the Ruhr-Universität Bochum.” *Image Processing Circular* No. 5 (R. Albrecht and M. Capaccioli, eds.) (1980).
- 10) W. A. Baum, T. Kreidl, J. A. Westphal, G. E. Danielson, P. K. Seidelmann, D. Pascu, and D. G. Currie, “Profile of Saturn’s E Ring.” [abstract]. *Bull. Amer. Astron. Soc.* **12**, 700 (1980).
- 11) T. J. Kreidl, “A Program to Determine Periodicities in Data Sets (Deeming’s Method).” *Image Processing Circular* No. 7 (R. Albrecht and M. Capaccioli, eds.) (1980).
- 12) W. A. Baum and T. J. Kreidl, “How to Make Planetary Rings.” [abstract]. *Bull. Amer. Astron. Soc.* **12**, 830 (1980).
- 13) B. Vaucher, N. Thomas, T. J. Kreidl, and A. Hoag, “Quantitative Measures of Slitless Spectra of QSOs.” [abstract]. *Bull. Amer. Astron. Soc.* **12**, 836 (1980).
- 14) W. A. Baum, B. Thomsen, and T. J. Kreidl, “Subtleties in the Flat-Fielding of Charge-Coupled Device (CCD) Images.” *SPIE* Vol. 290, *Solid State Imagers for Astronomy*, pp. 24–27 (1981).
- 15) W. A. Baum, T. Kreidl, J. A. Westphal, G. E. Danielson, P. K. Seidelmann, D. Pascu, and D. G. Currie, “Saturn’s E Ring. I. CCD Observations of March 1980.” *Icarus* **47**, 84–96 (1981).

- 16) W. A. Baum and T. J. Kreidl, "Thickness of Saturn's A and B Rings." [abstract]. *Bull. Amer. Astron. Soc.* **13**, 727 (1981).
- 17) N. M. White and T. J. Kreidl, "Occultation Angular Diameters of α Tauri by Least Squares and Deconvolution." [abstract]. *Bull. Amer. Astron. Soc.* **13**, 830 (1982).
- 18) N. M. White, T. J. Kreidl, L. Goldberg, "An Occultation Angular Diameter in H-alpha Light." *Astrophys. J.* **254**, 670–675 (1982).
- 19) W. A. Baum and T. J. Kreidl, "Detection of a Cloud Surrounding Saturn's A and B Rings." [abstract]. *Bull. Amer. Astron. Soc.* **14**, 575 (1982).
- 20) J. A. Tyson, W. A. Baum, and T. Kreidl, "Deep CCD Images of 3C 273." *Astrophys. J. Lett.* **257**, L1–L5 (1982).
- 21) W. A. Baum and T. J. Kreidl, "Apparent Thickness of the A and B Rings." [abstract]. In *Saturn Conference Abstracts*, p. 53. Lunar and Planetary Laboratory, University of Arizona, Tucson (1982).
- 22) B. G. Vaucher, T. J. Kreidl, N. G. Thomas, and A. A. Hoag, "Quantitative Measures of Slitless Spectra of QSOs." *Astrophys. J.* **261**, 18–24 (1982).
- 23) T. J. Kreidl, "Image Processing Applied to CCD Images of Saturn's Rings." [abstract]. *Bull. Amer. Astron. Soc.* **14**, 747 (1982).
- 24) W. A. Baum and T. J. Kreidl, "Implications of the Three-Dimensional Distribution of Material in Saturn's E Ring." [abstract]. *Bull. Amer. Astron. Soc.* **14**, 749 (1982).
- 25) K. Lumme, W. A. Baum, and T. J. Kreidl, "Transmitted Light through Low-Density Areas in Saturn's Rings as a Model to Explain the 1980 Edge-on Observations." [abstract]. *Bull. Amer. Astron. Soc.* **14**, 749 (1982).
- 26) T. J. Kreidl, "Astrometric and Photometric Area-Scanner Measurements of Double Stars." In *Current Techniques in Double and Multiple Star Research, IAU Colloquium No. 62* (R. S. Harrington and O. G. Franz, eds.). *Lowell Observatory Bulletin* No. 167, pp. 224–227 (1983).
- 27) T. J. Kreidl, "A Variable-Length Directory Structure for a Large, Single-File Image Disk." *Astronomical Image Processing Circular* No. 9 (R. Albrecht and M. Capaccioli, eds.) (1983).
- 28) W. A. Baum and T. J. Kreidl, "CCD Observations of Globular Clusters in M31." [abstract]. *Bull. Amer. Astron. Soc.* **15**, 666 (1983).
- 29) W. A. Baum, R. L. Millis, and T. J. Kreidl, "Narrowband CCD Imaging Observations of Comets." [abstract]. *Bull. Amer. Astron. Soc.* **15**, 801 (1983).
- 30) L. J. Martin, W. A. Baum, L. H. Wasserman, and T. J. Kreidl "Clouds Above the Martian Limb." [abstract]. *Bull. Amer. Astron. Soc.* **15**, 847 (1983).
- 31) T. J. Kreidl, "On the δ Sct-like Variability of the Ap Star HD 10088." *Inf. Bull. Var. Stars* No. 2460 (1984).

- 32) T. J. Kreidl, "Lack of Detection of a $P_{1.77}$ -Periodicity in the CP Star HD 32633." *Inf. Bull. Var. Stars* No. 2472 (1984).
- 33) K. D. Rakos, R. Albrecht, H. Jenkner, T. Kreidl, R. Michalke, D. Oberlerchner, E. Santos, A. Schermann, A. Schnell, and W. Weiss, "Photometric and Astrometric Observations of Close Visual Binaries. *Erratum*." *Astron. Astrophys. Suppl. Series* **47**, 221–235 (1982).
- 34) N. M. White and T. J. Kreidl, "Occultation Diameters of Alpha Tauri." *Astron. J.* **89**, 424–429 (1984).
- 35) W. A. Baum, T. J. Kreidl, and L. H. Wasserman, "Saturn's E Ring." In *Planetary Rings, IAU Colloquium No. 75* (A. Brahic, ed.), pp. 103–108. Cepadues Editions, Toulouse (1984).
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- 41) D. W. Kurtz and T. J. Kreidl, "A Frequency Analysis of a Newly Discovered Rapidly Oscillating Ap Star, HD 6532." *Mon. Not. Roy. Astron. Soc.* **216**, 987–999 (1985).
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- 48) W. A. Baum and T. J. Kreidl, "Volatiles in Cometary Grains." In *Asteroids, Comets, Meteors II* (C.-I. Lagerkvist, B. A. Lindblad, H. Lundstedt, and H. Rickman, eds.), pp. 397–402. Uppsala Univ., Sweden (1986).
- 49) T. J. Kreidl and D. W. Kurtz, "Frequency Analysis of the 5.65-min oscillations in the rapidly oscillating Ap star HD 134214." *Mon. Not. Roy. Astron. Soc.* **220**, 313–320 (1986).
- 50) W. A. Baum, T. J. Kreidl, and D. G. Schleicher, "Ices in Cometary Grains." [abstract]. *Bull. Amer. Astron. Soc.* **18**, 794, 1986.
- 51) D. G. Schleicher, W. A. Baum, and T. J. Kreidl, "The Spatial Distribution of Cometary C₂ Using CCD Imaging Data." [abstract]. *Bull. Amer. Astron. Soc.* **18**, 802 (1986).
- 52) T. J. Kreidl, "Are There Any True δ Sct Ap Stars?" In *Stellar Pulsation: A Memorial to John P. Cox (Lecture Notes in Physics; 274)* (A. N. Cox, W. M. Sparks, S. G. Starrfield, eds.), Springer-Verlag, New York, pp. 134–137 (1987).
- 53) R. L. Millis, L. H. Wasserman, O. G. Franz, R. A. Nye, R. C. Oliver, T. J. Kreidl, S. E. Jones, W. Hubbard, L. Lebofsky, R. Goff, R. Marcialis, M. Sykes, J. Frecker, D. Hunten, B. Zellner, H. Reitsema, G. Schneider, E. Dunham, J. Klavetter, K. Meech, T. Oswalt, J. Rafert, E. Strother, J. Smith, H. Povenmire, B. Jones, D. Kornbluh, L. Reed, K. Izor, M. F. A'Hearn, R. Schnurr, W. Osborn, D. Parker, W. T. Douglas, J. D. Beish, A. R. Klemola, M. Rios, A. Sanchez, J. Piironen, M. Money, R. S. Ireland, and D. Leibow, "The Size, Shape, Density, and Albedo of Ceres from Its Occultation of BD+8deg471." *Icarus*, **72**, pp. 507–518 (1987).
- 54) H. Schneider, W. W. Weiss, T. J. Kreidl, and A. P. Odell, "Searches for Rapid Line Profile Variations of Two Pulsating CP2 Stars: HD 128898 and HD 201601." In *Stellar Pulsation: A Memorial to John P. Cox (Lecture Notes in Physics; 274)* (A. N. Cox, W. M. Sparks, S. G. Starrfield, eds.), Springer-Verlag, New York, pp. 138–141 (1987).
- 55) W. A. Baum, T. J. Kreidl, and D. G. Schleicher, "Assaying Cometary Grains." [abstract]. *Bull. Amer. Astron. Soc.* **19**, 868 (1987).
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- 60) S. B. Howell and T. J. Kreidl, "RW Ursae Minoris." I.A.U. Circular No. 4672, Nov. 08 (1988).

- 61) S. B. Howell, P. Szkody, T. J. Kreidl, and K. O. Mason, "A CCD Photometric Study of Faint and/or Short Period Cataclysmic Variables." [abstract]. *Bull. Amer. Astron. Soc.* **20**, 1020 (1988).
- 62) T. J. Kreidl and H. Schneider, "The rotation period of the Ap star HD220825 (κ Psc)." *Inf. Bull. Var. Stars* No. 3282 (1989).
- 63) H. B. Hammel, N. L. Lark, M. Rigler, and T. J. Kreidl, "Disk-Integrated Photometry of Neptune at Methane-Band and Continuum Wavelengths." *Icarus*, **79**, pp. 1–14 (1989).
- 64) R. M. Wagner, T. J. Kreidl, S. B. Howell, G. W. Collins, S. Starrfield, "V404 Cygni." I.A.U. Circular No. 4797, June 17 (1989).
- 65) P. Szkody, S. B. Howell, M. Mateo, T. J. Kreidl, "CCD Time-Resolved Photometry of Faint Cataclysmic Variables. II." *Publ. Astron. Soc. Pacific* **101**, 899–906 (1989).
- 66) W. W. Weiss, R. Kuschnig, T. J. Kreidl, J. Zverko, K. Panov, A. Hempelmann, N. Polosukchina, "Astroseismology with the Pulsating Binary-system ET And I. Photometry of ET And." [abstract]. *Astronomische Gesellschaft Abstract Series*, **3**, 79 (1989).
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- 69) W. A. Baum and T. J. Kreidl, "Comet-to-comet differences in coma grain properties." [abstract] In *Asteroids, Comets, Meteors III. Abstracts* (C.-I. Lagerkvist, P. Magnusson, and H. Rickman, eds.), Uppsala Astron. Obs. Rep., No. 48, Uppsala Univ., Sweden (1989).
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