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Education B.S., Astronomy (Honors), California Institute of Technology, 1967.
Ph.D., University of California, San Diego, 1972.

Positions held

Project Assistant, Dept of Astronomy, Univ of Wis-Madison, 1973-1974.
Assistant Professor, Dept of Astronomy, Univ of Wis-Madison, 1974-1980.
Associate Professor, Dept of Astronomy, Univ of Wis-Madison, 1980-1986.
Payload Specialist, NASA/University of Wis-Madison, July 1984-Dec 1990.
Professor, Dept of Astronomy, Univ of Wis-Madison, 1986-2006.
Director, Space Astronomy Lab, Univ of Wis-Madison, 1996-2004.
Professor Emeritus, Dept of Astronomy, Univ of Wis-Madison, 2006-present.

Committees, awards

NASA Sounding Rocket Working Group, 1992-1998; 2006-2009.
NASA Public Service Medal, 1992.

Graduate Thesis Advisees

Richard L. White (PhD 1978). ST Science Institute.
Jeffrey W. Percival (PhD 1979). University of Wisconsin - Madison.
William J. Tobin (PhD 1979). University of Canterbury (ret).
Olivia L. Lupie (PhD 1983). NASA Goddard Space Flight Center.
Roy V. Myers (PhD 1984)
Mark A. Nook (PhD 1990). University of Wisconsin - Stevens Point.
Michael J. Wolff (PhD 1993). Space Sciences Institute, Boulder CO.
Steven J. Gibson (PhD 1997). Western Kentucky University.
Jennifer L. Hoffman (PhD 2002). University of Denver.
K. Tabetta Hole (PhD 2009). East Tennessee State Univ.

Research Interests

Astronomical polarimetry; instrumentation, application, and analysis.
Ultraviolet space astronomy
Interstellar dust. Interacting Binaries.
Magnetic Field Diagnostics

Publications

Nordsieck, K.H. 1971, Ap.J., **163**, 287, "A Dust-Related Instability in Ionized Nebulae".
Nordsieck, K.H. 1971, Ap.J., **166**, 731, "A Further Comment on the Dust-Related Instability in Ionized Nebulae".
Nordsieck, K.H. 1972, Astrophysical Letters, **12**, 69, "A Search for Circular Polarization in Extragalactic Objects".

Publications - Continued

- Nordsieck, K.H. 1973, Ap.J., **184**, 719, "The Angular Momentum of Spiral Galaxies: I. Methods of Rotation Curve Analysis".
- Nordsieck, K.H. 1973, Ap.J., **184**, 735, "The Angular Momentum of Spiral Galaxies: II. Detailed Models and Correlations for 17 Galaxies".
- Nordsieck, K.H. 1974, P.A.S.P., **86**, 324, "A Simple Polarimetric System for the Lick Observatory Image-Tube Scanner".
- Nordsieck, K.H. 1976, Ap.J., **209**, 653, (Wisc. Ap. 24), "Optical Polarization Models of Quasi-Stellar Objects and BL Lac Objects".
- Baldwin, J.A., Wampler, E.J., Burbidge, E.M., O'Dell, S.L., Smith, H.E., Hazard, C., Nordsieck, K.H., Pooley, G., and Stein, W.A., 1977, Ap.J., **215**, 408, "1400+162 - An Extended Radio Source Identified with a BL Lacertae Object in a Group of Galaxies".
- Mathis, J.S., Rumpl, W.M., and Nordsieck, K.H. 1977, Ap.J., **217**, 425, (Wisc.Ap. 52), "The Size Distribution of Interstellar Grains".
- Percival, J.W., and Nordsieck, K.H., 1980, P.A.S.P., **92**, 362, (Wisc. Ap. 88), "Thermal Background Subtraction in Photodiode Detectors".
- Anderson, C.M., Oliverson, N.A., and Nordsieck, K.H. 1980, Ap.J., **242**, 188, (Wisc. Ap. 105), "Observational Studies of the Symbiotic Stars. I. H-Alpha Profile Variations in CH Cygni".
- Tobin, W., and Nordsieck, K.H. 1981 A.J., **86**, 1360, (Wisc. Ap. 124), "Applications of an Observational Grid of Low Metallicity Stellar Spectra".
- Nordsieck, K.H., Cassinelli, J.P., and Anderson, C.M. 1981, Ap.J., **248**, 678, (Wisc. Ap. 199), "Search for Optical Coronal Line Emission from the Soft X-Ray Sources ϵ Ori B0Ia and κ Ori B0.5Ia".
- Myers, R.V., and Nordsieck, K.H. 1984, Icarus, **58**, 431, (Wisc. Ap. 186), "Spectropolarimetry of Comets Austin and Churyumov-Gerasimenko".
- Lupie, O.L., and Nordsieck, K.H. 1987, A.J., **92**, 214, (Wisc. Ap. 181), "Visible and Infrared Continuum Spectropolarimetric Observations of Ten OB Supergiant and O Emission-Line Stars".
- Cassinelli, J.P., Nordsieck, K.H., and Murison, M. 1987, Ap.J., **317**, 290, (Wisc.Ap. 252), "Polarization of Light Scattered from the Winds of Early-Type Stars".
- Stanford, S.A., Clayton, G.C., Meade, M.R., Nordsieck, K.H., Whitney, B.A., Murison, M.A., Anderson, C.M., and Nook, M.A. 1988, Ap.J. (Letters), **325**, L9, (Wisc. Ap. 270), "R Coronae Borealis Dust Ejections: A Preferred Plane?".
- Nook, M.A., Cardelli, J.A., and Nordsieck, K.H. 1990, A.J., **100**, 2004, "The Envelopes of RV Tauri Stars. I. Linear Polarimetric and Spectroscopic Observations".
- Schulte-Ladbeck, R.E., Nordsieck, K.H., Nook, M.A., Magalhães, A.M., Taylor, M., Bjorkman, K.S., and Anderson, C.M. 1990, Ap.J. (Letters), **365**, L19, (Wisc. Ap. 375), "A Rotating, Expanding Disk in the Wolf-Rayet Star EZ Canis Majoris?".
- Schulte-Ladbeck, R.E., Nordsieck, K.H., Taylor, M., Nook, M.A., Bjorkman, K.S., Magalhães, A.M., and Anderson, C.M. 1991, Ap.J., **382**, 301 (Wisc. Ap. 390), "On the Wind Geometry of the Wolf-Rayet Star EZ CMa".
- Taylor, M., Nordsieck, K.H., Schulte-Ladbeck, R.E., and Bjorkman, K.S. 1991, A.J. **102**, 1197, (Wisc. Ap. 392), "A Study of the Asymmetric Wind of P Cygni".
- Taylor, M., Code, A.D., Nordsieck, K.H., Anderson, C.M., Babler, B.L., Bjorkman, K.S., Clayton, G.C., Magalhães, A.M., Meade, M.R., Schulte-Ladbeck, R.E., and Whitney, B.A. 1991, Ap.J. (Letters) **382**, L85 (Wisc. Ap. 400), "First UV Spectropolarimetry of Hot Supergiants".

Publications - Continued

- Bjorkman, K.S., Nordsieck, K.H., A.M., Code, Anderson. C.M., Babler, B.L., Clayton, G.C., Magalhães, A.D., Meade, M.R., Nook, M.A., Schulte-Ladbeck, R.E., Taylor, M., and Whitney, B.A. 1992, Ap.J. (Letters) **383**, L67, "First Ultraviolet Spectropolarimetry of Be Stars from WUPPE".
- Clayton, G.C., Anderson. C.M., Magalhães, A.M., Code, A.D., Nordsieck, K.H., Meade, M.R., Wolff, M., Babler, B.L., Bjorkman, K.S., Schulte-Ladbeck, R.E., Taylor, M., and Whitney, B.A. 1992, Ap.J. (Letters) **385**, L53, "The First Spectropolarimetric Study of the Wavelength Dependence of Interstellar Polarization in the Ultraviolet".
- Schulte-Ladbeck, R.E., Nordsieck, K.H., Taylor, M., Bjorkman, K.S., Magalhães, A.M., and Wolff, M.J. 1992 Ap.J., **387**, 347 (Wisc. Ap. 403), "The Wind Geometry of the Wolf-Rayet star HD 191765".
- Schulte-Ladbeck, R.E., Nordsieck, K.H., Code, A.D., Anderson. C.M., Babler, B.L., Bjorkman, K.S., Clayton, G.C., Magalhães, A.M., Meade, M.R., Shepherd, D., Taylor, M., and Whitney, B.A. 1992, Ap.J. (Letters) **391**, L37, "The First Linear Polarization Spectra of Wolf-Rayet Stars in the Ultraviolet: EZ Canis Majoris and θ Muscae".
- Schulte-Ladbeck, R.E., Shepherd, D., Nordsieck, K.H., Code, A.D., Anderson. C.M., Babler, B.L., Bjorkman, K.S., Clayton, G.C., Magalhães, A.M., Meade, M.R., Taylor, M., and Whitney, B.A. 1992, Ap.J. (Letters) **401**, L105, "Evidence for a Bipolar Nebular around the peculiar B[e] Star HD 45677 from Ultraviolet Spectropolarimetry".
- Code, A.D., Meade, M.R., Anderson. C.M., Nordsieck, K.H., Clayton, G.C., Whitney, B.A., Magalhães, A.M., Babler, B.L., Bjorkman, K.S., Schulte-Ladbeck, R.E., and Taylor, M., 1993, Ap.J. (Letters) **403**, L63 (Wisc. Ap. 449), "The First Ultraviolet Spectropolarimetric Study of NGC 1068".
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- Barger, A.J., Gallagher, J.S., Bjorkman, K.S., Johansen, K.A., and Nordsieck, K.H. 1993, Ap.J. (Letters), **419**, L85 (Wisc. Ap. 489), "A Hot Neon Nova: Optical Spectrophotometry and the Physics of Nova Cygni 1992".
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- Clayton, Geoffrey C., Whitney, Barbara A., Meade, Marilyn R.; Babler, Brian; Bjorkman, Karen S., Nordsieck, Kenneth H. 1995 PASP, **107**, 416. "Long-Term Spectroscopic and Polarimetric Monitoring of R Coronae Borealis near Maximum Light"
- Wolff, Michael J., Nordsieck, Kenneth H., Nook, Mark A. 1996 AJ, **11**, 856. "A Medium-Resolution Search for Polarimetric Structure: Moderate Reddening Sightlines"
- Anderson, C. M., Weitenbeck, A. J., Code, A. D., Nordsieck, K. H., Meade, M. R., Babler, B. L., Zellner, N. E. B., Bjorkman, K. S., Fox, G. K., Johnson, J. J., Sanders, W. T., Lupie, O. L., Edgar, R. J. 1996 AJ, **112**, 2726. "Ultraviolet Interstellar Polarization of Galactic Starlight. I. Observations by the Wisconsin Ultraviolet Photo Polarimeter Experiment"
- Clayton, Geoffrey C., Bjorkman, Karen S., Nordsieck, Kenneth H., Zellner, Nicolle E. B., Schulte-Ladbeck, Regina E. 1997, ApJ **476**, 870. "Evidence for a Bipolar Geometry in R Coronae Borealis?"
- Wolff, M. J., Clayton, G. C., Allen, R. G., Babler, B. L., Meade, M. R., Nordsieck, K. H.,

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- Ignace, R., Nordsieck, K. H. & Cassinelli, J. P. 1997. *ApJ* **486**, 550, "The Hanle Effect as a Diagnostic of Magnetic Fields in Stellar Envelopes. I. Theoretical Results for Integrated Line Profiles"
- Hoffman, J.L., Nordsieck, K.H. & Fox, G.K., 1998, *A.J.*, **115**, 1576. "Spectropolarimetric Evidence for a Bipolar Flow in Beta Lyrae".
- Ignace, R., Cassinelli, J. P. & Nordsieck, K. H. 1999, *ApJ*, **520**, 335. "The Hanle Effect as a Diagnostic of Magnetic Fields in Stellar Envelopes. II. Some Theoretical Results for Resolved Line Profiles"
- Cole, A.A., Nordsieck, K.H., Gibson, S.J. & Harris, W.M. 1999, *AJ*, **118**, 2280. "Ultraviolet Imaging Polarimetry of the Large Magellanic Cloud. I. Observations,"
- Cole, A.A. Wood, K. & Nordsieck, K.H. 1999, *AJ*, **118**, 2292. "Imaging Polarimetry of the Large Magellanic Cloud. II. Models"
- Meyer, Jill M., Nordsieck, Kenneth H., and Hoffman, Jennifer L. 2002, *AJ*, **123**, 1639. "Spectropolarimetric Clues to the Structure and Evolutionary Status of MWC 349A"
- Gibson, S.J. & Nordsieck, K.H. 2003, *ApJ*, **589**, 347. "The Pleiades Reflection Nebula. I. Ultraviolet, Optical, and Far-Infrared Imaging Photometry"
- Gibson, S.J. & Nordsieck, K.H. 2003, *ApJ*, **589**, 362. "The Pleiades Reflection Nebula. II. Simple Model Constraints on Dust Properties and Scattering Geometry"
- Hoffman, J.L., Whitney, B.A., & Nordsieck, K.H. 2003, *ApJ* **598**, 572. "The Effect of Multiple Scattering on the Polarization from Binary Star Envelopes. I. Self- and Externally Illuminated Disks"
- Clayton, G.C., Wolff, M.J., Gordon, K.D., Smith, P.S., Nordsieck, K.H. & Babler, B.A. 2004, *AJ*, **127**, 3382. "Interstellar Polarization in M31"
- Ignace, R., Nordsieck, K.H., and Cassinelli, J.P. 2004, *ApJ*, **609**, 1018. "The Hanle Effect as a Diagnostic of Magnetic Fields in Stellar Envelopes IV. Application to Polarized P Cygni Wind Lines"
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- Burgh, Eric B.; Bershady, Matthew A.; Westfall, Kyle B.; Nordsieck, Kenneth H. 2007, *PubASP* **119**, 1069. "Recombination Ghosts in Littrow Configuration: Implications for Spectrographs Using Volume Phase Holographic Gratings"
- Schurch, M. P. E.; Coe, M. J.; McGowan, K. E.; McBride, V. A.; Buckley, D. A. H.; Galache, J. L.; Corbet, R. H. D.; Still, M.; Vaisanen, P.; Kniazev, A.; Nordsieck, K. 2007, *MNRAS* **381**, 1561. "Optical follow-up of new Small Magellanic Cloud wing Be/X-ray binaries"
- Brosch, Noah; Kniazev, Alexei Y.; Buckley, David A. H.; O'Donoghue, Darragh; Hashimoto, Yas; Loring, Nicola; Romero, Encarni; Still, Martin; Vaisanen, Petri; Burgh, Eric B.; Nordsieck, Kenneth 2007, *MNRAS* **382**, 1809. "The polar ring galaxy AM1934-563 revisited"
- Hole, K. T.; Kasen, D.; Nordsieck, K. H. 2010 *ApJ* **720**, 1500. "Spectropolarimetric Signatures of Clumpy Supernova Ejecta"

Publications - Continued

Selected Conference Proceedings and Abstracts

- McNall, J.F., and Nordsieck, K.H. 1976, Proc of IAU Coll. No 40, Sept 1976.
- Nordsieck, K.H., McNall, J.F., and Michalski, D.E. 1978, Bull.AmAstron.Soc. **10** 451, "A Portable Reticon Multichannel Spectrometer".
- Anderson, C.M., and Nordsieck, K.H. 1978, Proc of the 4th Coll. on Astrophysics of the Trieste Observatory, July, 1978 (Wisc. Ap. 70), "Zeeman Spectroscopy with the Kitt Peak 4-Meter Telescope Echelle Spectrograph".
- Percival, J.W., and Nordsieck, K.H. 1979, Wisc. Ap. 94, "Reticon Data Reduction Program - A User's Guide".
- Whitney, B.A., Nordsieck, K.H., and Myers, R.V. 1988, Wisc. Ap. 271, "The Wavelength Dependence of the Polarization of Asteroids".
- Magalhães, A.M., Nordsieck, K.H., Nook, M.A., Knopp, G.P., Anderson, C.M., Babler, B.L., Bjorkman, K.S., Diamond, S.M., MacDonald, A.J., Meade, M.R., Roberts, T.P., Schulte-Ladbeck, R.E., Taylor, M., and Wolff, M.J. 1990, Bull.Am.Astron.Soc., **22**, 1209, "Time-dependent Spectropolarimetry of Red Long-Period Variables at the Pine Bluff Observatory".
- Bjorkman, K.S., Nordsieck, K.H., Anderson, C.M., Babler, B.L., Diamond, S.M., Knopp, G.P., MacDonald, A.J., Magalhães, A.M., Meade, M.R., Roberts, T.P., Schulte-Ladbeck, R.E., Taylor, M., Wolff, M.J., and Zellner, N.E. 1991, Bull.Am.Astron.Soc., **23**, 1376, "PBO Spectropolarimetric Survey of Be Stars: First Results".
- Nordsieck, K.H., Babler, B.L., Bjorkman, K.S., Meade, M.R., Schulte-Ladbeck, R.E., and Taylor, M.J. 1992 in Proc of the STScI Workshop on Nonisotropic and Variable Outflows from Stars (ed L. Drissen, C. Leitherer, and A. Nota) ASP: San Francisco "Stellar Spectropolarimetric Monitoring at the University of Wisconsin".
- Nordsieck, K.H., Code, A.D., Anderson, C.M., Meade, M.R., Babler, B., Michalski, D.E., Pfeifer, R.H., and Jones, T.E. 1994. Proc SPIE 2010, p2. (Wisc. Ap. 477) "Exploring Ultraviolet Astronomical Polarimetry: Results from the Wisconsin Ultraviolet Photo-Polarimeter Experiment (WUPPE)".
- Nordsieck, K.H., Marcum, P., Jaehnig, K.P., and Michalski, D.E. 1994. Proc SPIE 2010, p 28. (Wisc. Ap. 478) "New Techniques in Ultraviolet Astronomical Polarimetry: Wide-Field Imaging and Far-Ultraviolet Spectropolarimetry".
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Interacting Binaries V356 Sgr and TT Hya"
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Interpreting Polarimetric Observations"
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10500 nm Observed by WUPPE and the UW HPOL System"
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"Neutral Gas Associated with the Pleiades Reflection Nebula"
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"Photopolarimetric Observations of CI(1657 Angstroms) and Dust Continuum Emissions
from Comet Hale-Bopp with the WISP Sounding Rocket"
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III, Woodward, R. C., Mierkiewicz, E. J., Haffner, L. M., Tufte, S. L., Oliverson, R. J., Hilton,
G. M., Doane, N., Tilleman, T., Vincent, M. 1997 DPS, **29**, 3201. "The Wisconsin/GSFC
Hale-Bopp Observing Campaign"
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with Ultraviolet Imaging Polarimetry"
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(FUSP)"
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1998 Bull.Am.Astron.Soc, **30**, 1071. "Multispectral Studies of CO Production from C/1995
O1 (Hale-Bopp)"
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Cosmic Ultraviolet Background"
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results and prospects".
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Phenomenon in Early-Type Stars*, (eds.) M. Smith, H. Henrichs & J. Fabregat (San
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- Magalhães, A.M. & Nordsieck, K.H. 2000 in *The Carbon Star Phenomenon*. (ed) R.F.Wing,
(Netherlands: IAU), p433 "Asymmetries around Luminous Red Variables"
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"Ultraviolet and Visible Spectropolarimetric Variability in P Cygni"
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- Nordsieck, K.H. 2004, in the proceedings of *Science with SALT*, Vol 2, (ed) D.A.H. Buckley "A SALT Spectropolarimetric Survey of Supernovae ('S⁴)"
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