Nadia Kaltcheva

Department of Physics and Astronomy, University of Wisconsin Oshkosh

Employment

- UW Oshkosh, 07/2010- present, Professor of Physics and Astronomy (department chair 2011-2017, 2023-present)
- UW Oshkosh, 07/2005- 07/2010, Associate Professor of Physics and Astronomy
- UW Oshkosh, 09/2001-07/2005, Assistant Professor of Physics and Astronomy
- Niels Bohr Institute for Astronomy, Physics and Geophysics (Copenhagen, Denmark), 2000, Assistant Research Professor of Astronomy
- University of St. Andrews, Scotland, UK, 1998-1999, Royal Astronomical Society Research Fellowship
- Hoher List Observatory, Bonn, Germany, DAAD Fellow, 1997
- St. Kliment Ohridski University, Sofia, Bulgaria, 1997-2001, Assistant Professor of Astronomy
- Inter-University Center of Astronomy and Astrophysics, Pune, India, Postdoctoral Fellow, 1996

Education

• St. Kliment Ohridski University, Sofia, Bulgaria, Ph.D. degree in Astronomy; M.Sc. degree in Physics, with Honors, major in Optics and Spectroscopy

Fellowships, Grants, Awards, Recognitions

- 2023 UW Oshkosh Edward M. Penson Distinguished Teaching Award
- 2023 F. John Barlow Endowed Professorship at the University of Wisconsin Oshkosh
- 2022 NASA/Wisconsin Space Grant Consortium Special Initiatives Program Award, PI
- 2019 UW Oshkosh Professorial Productivity / Distinguished Professorship Recognition
- 2017 Fall semester UW Oshkosh sabbatical award
- 2015-2021 National Science Foundation grant "RUI: Stellar Nurseries in the Near Part of the Milky Way" (\$161K), PI
- 2015 UW Oshkosh Faculty Mentor Award
- 2015 National Council of Undergraduate Research Recognition of Excellence in Mentoring Undergraduate Research
- 2014 Wisconsin Space Grant Consortium Higher Education Incentives Award, co-PI
- 2011 NSF supplemental support (\$28K), co-PI
- 2011 UW Oshkosh Duncan Research Award
- 2009 SLC Endowed Professorship of International Relations at the University of Wisconsin Oshkosh
- 2009 Fall semester UW Oshkosh sabbatical award
- 2009, Wisconsin Space Grant Consortium Faculty Research Seed Grant (\$5000)
- 2007 National Science Foundation grant "RUI: Galactic Spiral Structure Reassessment: a precision photometry approach to complete homogeneous samples" (\$166K), PI
- 2003 Vander Putten International Award, UW Oshkosh
- Multiple International Astronomical Union travel grants (2005, 2004, 2003, 2002, 1999, 1996)
- 2000, 1999, NATO collaborative grants (St. Kliment Ohridski University, Copenhagen Observatory and Athens Observatory)
- 1998, NATO/Astronomical Royal Society Advanced Fellowship (Univ. of St Andrews, Scotland, UK)
- 2000, 1997, Danish Government Visiting Fellowships (Niels Bohr Institute, Copenhagen, Denmark)
- 1997, DAAD (German Academic Exchange Service) grant (University of Bonn, Germany)
- 1996, Inter University Center of Astronomy and Astrophysics Visiting Fellowship (Pune, India)
- 1996, Bulgarian National Science Foundation: Project grant No F617/1996: Stellar Clusters in Galaxies of the Local Group; Bulgarian National Science Foundation award for excellence in research

Current Membership to Professional Organizations

- International Astronomical Union; Member of Division C Education, Outreach and Heritage
- International Astronomical Union; Member of Division G Stars and Stellar Physics
- International Astronomical Union, Member of Executive Committee WG Astronomy for Equity and Inclusion

Teaching

General requirement classes and laboratories (UW Oshkosh).

(100-level) Physical Science; Introduction to the Solar System (lecture, lab); Stars, Galaxies and the Universe (lecture, lab); College Physics I (workshop mode and lecture/lab/discussion mode), Astronomy for Everyone.

Upper-level physics classes (UW Oshkosh).

(200-level) Introduction to Astrophysics; Modern Physics; Advanced Physics Lab I; (300-level) Theoretical Methods of Astrophysics, Advanced Physics Lab II, Physical Optics; Galaxies, Interstellar Medium and Star-Formation, (400-level) Statistical Physics and Thermodynamics; Special Topics: Astrophysics; Senior Research Project; Independent Study

Dual level: Physical Optics (307/507); Statistical Physics and Thermodynamics (408/608)

Graduate level: Master's Thesis Advisor

Scholarship

Research Field: Astronomy and Astrophysics: open clusters and associations, stellar photometry, Milky Way structure, star-forming fields, stellar polarization, astronomy education.

Publications in Refereed Journals

Topasna, G. A., Mateja, F., **Kaltcheva**, N., 2023, "BVRI polarization in direction of Stock 19", *Publications of the Astronomical Society of Japan*, Volume 75, Issue 1, February 2023, Pages 269–278

Kaltcheva, N., Berry, P., 2023, "A Simple Stellar Magnitude Scale Demonstration", Physics Education, 58 055002

Topasna, G. A., Gibson, S. D., Kaltcheva, N., 2022, "Interstellar Extinction and Polarization of Stars in the Open Cluster NGC 6709", *The Publications of the Astronomical Society of the Pacific*, Volume 134, Issue 1038, id.084301

Kaltcheva N., Nenkova, M., 2021, "Teaching Introductory Astronomy Using Virtual Observations", Phys. Educ. 56 065015

Topasna, G. A., Riley, R. W., **Kaltcheva**, **N.**, 2021, "Interstellar Extinction and Polarization of Stars in the Open Cluster NGC 7160", *The Publications of the Astronomical Society of the Pacific*, Volume 133, Issue 1028, id.104301

Kaltcheva, N., Paunzen, E. Prišegen, M., Golev, V., Watson, M., 2020, "Absolute Magnitudes of Early-type Supergiants from uvbyβ Photometry and Parallax Data", *The Publications of the Astronomical Society of the Pacific*, Volume 132, Issue 1013, id.074203, 12

Topasna, G. A., Jones R., **Kaltcheva**, **N.**, 2020, "Interstellar Polarization and Extinction toward the Open Cluster NGC 6530", *The Publications of the Astronomical Society of the Pacific*, Volume 132, Issue 1010, id.044301

Bernhard, K., Otero, S., Hümmerich, S., **Kaltcheva, N.**, Paunzen, E., Bohlsen, T., 2018, "An investigation of the photometric variability of confirmed and candidate Galactic Be stars using ASAS-3 data", *Monthly Notices of the Royal Astronomical Society*, Volume 479, Issue 3, p.2909-2967

Topasna, G. A., **Kaltcheva**, N. T., Paunzen, E., 2018, "Interstellar Polarization and Extinction towards the Open Cluster NGC 1502", *Astronomy and Astrophysics*, Volume 615, id.A166

Kaltcheva N., Pritzl B., 2018, "Using stellar spectra to illustrate thermal radiation laws", Phys. Educ. 53 035022

Kaltcheva, N., Golev, V., Paunzen, E., 2017, "Photometric Strömgren-Hβ Quantification for O and B Stars of Luminosity Class V", *Publications of the Astronomical Society of Pacific*, Volume 129, Issue 981, pp. 114201

Topasna, G. A., Daman, E. A., **Kaltcheva, N. T.,** 2017, "Interstellar Polarization and Extinction towards the Open Cluster NGC 457", *Publications of the Astronomical Society of Pacific*, Volume 129, Issue 980, pp. 104201

Kaltcheva, N., Golev, V., Moran*, K., 2014, "Massive Stellar Content of the Galactic Supershell GSH~305+01-24", Astronomy and Astrophysics, 562A, 69K

Kaltcheva, N., Fabbri, V.*, Conard, T.*, Golev, V., 2013, "Cepheus Star-Forming Field Revisited", International Journal of Astronomy and Astrophysics, vol. 3, 472-479

Beaver, J., D., **Kaltcheva**, **N.**, Briley, M., Piehl*, D., 2013, "Strömgren-Hβ photometry of the galactic cluster NGC 6705 (M11)", The Publications of the Astronomical Society of the Pacific, vol. 125, No. 934, pp. 1412-1420

Kaltcheva, N., Moran*, K., Gehrman*, T., Golev, V., 2013, "Homogeneous Distances to Several Stellar Groups in the Second Galactic Quadrant", International Journal of Astronomy and Astrophysics, vol. 3, 10-17.

Kaltcheva, N. & Golev, V., 2012, "Galactic Structure toward the Carina Tangent", The Publications of the Astronomical Society of the Pacific, Vol. 124, No 912, pp. 128-139

Piehl, D., Briley, M. & Kaltcheva, N., 2011, "Strömgren-Hβ photometry of stars in dark clouds", Astronomische Nachrichten, Vol.332, Issue 2, p.159

Kaltcheva, N. & Scorcio, M., 2010, "The Carina Spiral Feature: Strömgren-Hβ photometry approach. II. Precise photometric distances and reddening", Astronomy and Astrophysics, 514, A59

Kaltcheva, N., Kuchera, A. & Hathaway, C., 2010, "A uvbyβ photometric analysis of the Monoceros star-forming field", Astronomische Nachrichten, Vol.331, Issue 4, p.384

Kaltcheva, **N.**, 2009, "Strömgren-Hβ photometry photometry of O and B stars in Norma", The Publications of the Astronomical Society of the Pacific, Volume 121, Issue 886, pp. 1326-1333

Kaltcheva, N., 2009, "Lacerta OB1 revisited", The Publications of the Astronomical Society of the Pacific, Volume 121, Issue 884, pp. 1045-1053

Kaltcheva, N. & Makarov V., 2007, "The structure and the distance of Cr121 from *Hipparcos* and photometry: resolving the discrepancy", Astrophysical Journal, 667L, 155

Benko A., Prince M. J., Prince B. J., **Kaltcheva N. T.**, Geissinger P., Schwabacher A. W., 2006, "Chemically Stable Films for Combinatorial Fluoresensor Arrays", Journal for Combinational Chemistry, 8(2), 221

Kaltcheva, **N.**, Jaeger, S., Kaba Bah M. & Briley, M. M., 2005, "The Field of IC 2602: Strömgren-Hβ photometry approach", Astronomische Nachrichten , 326, 738

Geissinger P., Prince B. J., **Kaltcheva N. T.**, Prince M. J., Schwabacher A. W., 2004, "Fiber-Optic Sensor Technology and Combinational Chemistry", In "Combinational and artificial intelligence methods in materials science", Vol. 804, pJJ7.7.1-JJ7.7.6

Kaltcheva N., 2003, "The Carina Spiral Feature: Strömgren-Hβ photometry approach. I. The photometric database", Astronomy and Astrophysics, 410, 523

Kaltcheva N., Knude J. & Georgiev V., 2003, "Interrelations between Vilnius and Strömgren photometric systems: the luminosity indicator v-X", Astronomy and Astrophysics, 407, 377

Kaltcheva N. & Knude J., 2002, "Transformations between Vilnius and Strömgren photometric systems", Astronomy and Astrophysics, 385, 1107

Knude J. & **Kaltcheva N.**, 2002, "Transformations between Vilnius and Strömgren-Hβ photometric systems", Astronomy and Space Science, 280, 67-70

Kaltcheva N., Gredel R. & Fabricius C., 2001, "The association surrounding NGC 2439", Astronomy and Astrophysics, 372, 95

Kaltcheva N., 2000, "The region of Collinder 121", Monthly Notices of the Royal Astronomical Society, 318, 1023

Kaltcheva N., Olsen E. H. & Clausen J. V., 2000, "Strömgren-Hβ photometry of O and B type stars in star-forming regions. III. Carina Spiral Feature", A&AS, 146, 365

Kaltcheva N. & Hilditch R., 2000, "The distribution of bright OB-stars in the Canis Major - Puppis - Vela region of the Milky Way", Monthly Notices of the Royal Astronomical Society, 312, 753

Kaltcheva N., Olsen E. H.& Clausen J. V., 1999, "Strömgren-Hβ photometry of O and B type stars in star-forming regions. II. Monoceros OB2, Canis Major OB1 and Collinder 121", Astronomy and Astrophysics, 352, 605

Kaltcheva N. & Olsen E. H., 1999, "Strömgren-Hβ photometry of O and B type stars in star-forming regions. I. Canis Major - Puppis – Vela", Astronomy and Astrophysics, 352, 600

Kaltcheva N. & Knude J., 1998, "A test of B-type star Strömgren-Hβ photometric distances via the Hipparcos parallaxes", Astronomy and Astrophysics, 337, 178

Kaltcheva N., 1998, "Strömgren-Hβ photometry of OB stars in the region of the Carina Spiral Feature", Astronomy and Astrophysics Supplement Series, 128, 309

Kunchev P. & Kaltcheva N., 1997, "New massive star cluster candidates in M33 galaxy", Astrophysics & Space Science, 253, 301

Kaltcheva N., 1995, "Photometric system Strömgren-Hβ - review", Annual reports of the University of Sofia, v. 87

Kaltcheva N. & Georgiev L., 1994 "Strömgren-Hβ photometry of open clusters and OB associations. III. Cen OB1 and Cru OB1", Monthly Notices of the Royal Astronomical Society, 269, 289.

Kaltcheva N. & Kunchev P., 1994, "Strömgren-Hβ photometry of OB stars in Serpens", Astrophysics & Space Science, 222, 39

Kaltcheva N., 1993, "Photographic *uvby* photometry of Globular Clusters M15 and NGC6712", Astrophysics & Space Science, 206, 103.

Kaltcheva N.,& Georgiev L., 1993, "Strömgren-Hβ photometry of open clusters and OB associations. II. Tr 16 and Car OB2", Monthly Notices of the Royal Astronomical Society, 261, 847.

Kaltcheva N.,& Georgiev L., 1992, "Interstellar reddening for globular cluster NGC 6712 by Strömgren-Hβ photometry", Astronomical Letters and Communications 28, 315.

Kaltcheva N., Georgiev L. & Ivanov M., 1992, "Calibration of *uvby* photometric system in AO Belogradchik", Bulgarian Journal of Physics 19, 42.

Kaltcheva N.& Georgiev L. 1992, "Strömgren-Hβ photometry of open clusters and OB associations. I. Ara OB1", Monthly Notices of the Royal Astronomical Society, 259, 166.

Papers Published in Conference Proceedings

Kaltcheva, **N.**, Topasna, G., Golev, V., 2017, "Strömgren-Hβ photometry and optical polarization study of young open clusters", Francesco's legacy: star formation in space and time Proceedings, Firenze, June 5-9, 2017, Editors: R. Cesaroni, E. Corbelli and D. Galli, Mem. S. A. It, v. 88, p.832

Kaltcheva, N., Golev, V.,; Beaver, J., Lund, S., Briley, M., 2017, Strömgren-Hβ photometry of the young open cluster NGC 6913, in Formation, evolution, and survival of massive star clusters, Proceedings of the International Astronomical Union, IAU Symposium, Volume 316, pp. 149-150

Kaltcheva, N., Golev, V., 2017, Characterizing Classical Be Stars via Intermediate-band Photometry, in The B[e] Phenomenon: Forty Years of Studies. Proceedings of a Conference held at Charles University, Prague, Czech Republic 27 June - 1 July 2016. Edited by Anatoly Miroshnichenko, Sergey Zharikov, Daniela Korčáková and Marek Wolf. ASP Conference Series, Vol. 508. San Francisco: Astronomical Society of the Pacific, 2017, p.51-56

Le Mieux, H., **Kaltcheva, N.**, 2016, "Young Stellar Population of the Cygnus Star-Forming Field ", Proceedings of the 25th Annual Wisconsin Space Conference (August 14, 2015, Oshkosh, WI), ISSN: 2374-8885

Christopherson, C., **Kaltcheva**, **N.**, 2016, "Observing Nebulosities: the Cygnus Superbubble", Proceedings of the 25th Annual Wisconsin Space Conference (August 14, 2015, Oshkosh, WI), ISSN: 2374-8885

Kaltcheva, N. & Golev, V., 2015, "Improved Distances and Structure of Several Galactic Star-Forming Fields", EWASS Symposium "Stellar Populations 55 years after the Vatican conference" July 1-7, 2012, Rome, Italy, Mem. S. A. It, v.86, p.344

Golev, V., & Kaltcheva, N., 2014, "Star Formation in the Prominent H I Shells toward Centaurus", 2014, Massive Young Star Clusters Near and Far: From the Milky Way to Reionization. 2013 Guillermo Haro Conference, Eds. Y. D. Mayya, D. Rosa González and E. Terlevich. INAOE & AMC, June 2014. ISBN: 978-607-8379-01-9, pp.231-232

Golev, V., & **Kaltcheva**, N., 2014, "Star Formation in the Coalsack Loop", Proceedings of Symposium 5: Local Group, Local Cosmology, European Week of Astronomy and Space Science, Turku, Finland, July 8 – July 13, 2013, Mem. S. A. It., v.85, p.593

Kaltcheva, N. & Golev, V., 2013, "Stellar Content of the Young Supershell GSH 305+01-24", in Massive Stars: From α to Ω , held 10-14 June 2013 in Rhodes, Greece; Online at http://a2omega-conference.net, id.11

Kaltcheva, N. & Golev, V., 2011, "The Field of Lod 112", in Stellar Clusters & Associations: A RIA Workshop on Gaia, Proceedings. Granada, Spain, May 23 - 27, 2011. Edited by: Alfaro Navarro, E. J.; Gallego Calvente, A. T.; Zapatero Osorio, M. R., pp.363-364

Kaltcheva, N. & Golev, V., 2011, "Improved Distances to Several Galactic OB Associations", in Stellar Clusters & Associations: A RIA Workshop on Gaia. Proceedings. Granada, Spain, May 23 - 27, 2011. Edited by: Alfaro Navarro, E. J.; Gallego Calvente, A. T.; Zapatero Osorio, M. R., pp.299-303

Kaltcheva, N., 2010, "The field of Lacerta OB1", in Star clusters: basic galactic building blocks throughout time and space, Proceedings of the International Astronomical Union, IAU Symposium, Volume 266, p. 427-428

Kaltcheva, N., 2007, "The distribution of early-type stars in the Mon-CMa-Pup-Vel region of the Milky Way", in Triggered Star Formation in a Turbulent ISM, Edited by B. G. Elmegreen and J. Palous. Proceedings of the International Astronomical Union 2, IAU Symposium #237, held 14-18 August, 2006 in Prague, Czech Republic. Cambridge: Cambridge University Press, 2007., pp.431

Kaltcheva, N. & Knude, J., 2007, "Interrelations Between Strömgren and Vilnius Photometric Systems: An Improvement of Stellar Classification", in Exploring the Cosmic Frontier: Astrophysical Instruments for the 21st Century. ESO Astrophysics Symposia, European Southern Observatory series. Eds. Andrei P. Lobanov, J. Anton Zensus, Catherine Cesarsky and Phillip J. Diamond. Series editor: Bruno Leibundgut, ESO. ISBN 978-3-540-39755-7. Published by Springer-Verlag, Berlin and Heidelberg, Germany, 2007, p.223

Kuchera, **A.**, Kaltcheva, N., Hathaway, C., 2007, "Photometric Study of the Monoceros Star-Forming Complex", Proceedings of the 17th Annual Wisconsin Space Conference, p. 234, August 16-17, 2007, UW Superior

Kaltcheva, N., 2003, "The Carina Spiral Feature - an investigation based on a complete magnitude-limited uvby β sample", in A Massive Star Odyssey: From Main Sequence to Supernova, Proceedings of IAU Symposium #212, held 24-28 June 2002 in Lanzarote, Canary island, Spain. Edited by Karel van der Hucht, Artemio Herrero, and Esteban, César. San Francisco: Astronomical Society of the Pacific, 2003., p.558

Kaltcheva, N., 2003, "Strömgren-Hβ photometry of OB Clusters and Associations: the Norma Field", in "Open Issues in Local Star Formation". Proceedings of the Ouro Preto Colloquium, Brazil, April 5-10, 2003. Edited by Jacques Lépine and Jane Gregorio-Hetem. Astrophysics and Space Science Library, Volume 299, p.11, . Kluwer Academic Publishers, Dordrecht, 2003.

Kontizas E., Dapergolas A., Kontizas M., Nordstroem B., Andersen J., Prantzos N.& **Kaltcheva N.**, 2000, Euro-Conference "The Evolution of Galaxies. I- Observational clues", Granada, Spain, "Age-Metallicity Relation in the LMC", Astrophysics and Space Science, v. 277, p. 333

Kaltcheva N., 1999, "A test of B-type star distance calibrations via the Hipparcos parallax data", in Egret D., Heck A., eds, ASP Conf. Ser. Vol. 167, "Harmonizing Cosmic Distance Scales in a Post-Hipparcos Era", Astron. Soc. Pac., San Francisco, p. 263

Kaltcheva N., Andersen M. I., Jönch-Sörensen H.& Sörensen A. N., 1999, "CCD *uvby*β photometry of open clusters. Trumpler 16", in Craine, D., Tucker R., Barnes J., eds, ASP Conference series 189, CCD Precision Photometry Workshop, Astron. Soc. Pac., San Francisco, p. 252

Communications to scientific meetings (74 presentations in total; only the last 6 years are listed)

Topasna, G., **Kaltcheva**, N., 2023, "Extinction and polarization of stars in NGC 6633", Annual Meeting of the European Astronomical Society, Krakow, Poland.

Topasna, G., Kaltcheva, N., 2023, "Polarization of stars in King 14", Annual Meeting of the European Astronomical Society, Krakow, Poland.

Kaltcheva, N., Topasna, G., 2022, "Extinction and polarization of bright stars in the CMa OB1 region", Annual Meeting of the European Astronomical Society, Valencia, Spain.

Topasna, G., **Kaltcheva**, N., 2022, "Interstellar polarization and extinction of young open clusters", Annual Meeting of the European Astronomical Society, Valencia, Spain.

Kaltcheva, N., 2021, "Stellar Content of the GSH 224-01+24 /Seagull Nebula Region", Star Clusters: the Gaia Revolution, 5-7 October 2021, Online workshop organized by the Institute of Cosmos Sciences (ICCUB-IEEC)

Kaltcheva, N., Nenkova M., 2021, "Interactive Teaching of Astronomy Concepts", Online workshop MW-Gaia: bringing the Milky Way to schools (organized by the European Cooperation in Science and Technology)

Block S., **Kaltcheva**, **N.**, 2020, "Physical Parameters of F and G-type Supergiants from uvbyβ Photometry and Gaia-DR2", American Astronomical Society meeting #236, id. 329.03. Bulletin of the AAS, Vol. 52, No. 3

Kaltcheva, N., 2020, "Photometric and Gaia DR2 study of the Monoceros star-forming field", American Astronomical Society meeting #236, id. 240.02. Bulletin of the American Astronomical Society, Vol. 52, No. 3

Kaltcheva, **N.**, Paunzen, E., 2019, "Evaluation of uvbyβ calibrations via the Gaia parallax data", European Week of Astronomy and Space Science, Lyon, France

Kaltcheva, N., Topasna, G. A., Jones R., 2019, "Interstellar Polarization and Extinction toward the Open Cluster NGC 6530", European Week of Astronomy and Space Science, Lyon, France

Kaltcheva, N., 2018, "H-R Diagram of a Sample of Classical Be stars", *Gaia* DR2 Exploration Lab Workshop, June 24-28, European Space Astronomy Center, Madrid, Spain (contributed talk)

Kaltcheva, N. Paunzen, E., 2018, "The HRD of the Upper Main Sequence on the Basis of uvbyβ and Parallax Data", Space Telescope Science Institute Spring Symposium "The 21st Century H-R Diagram", Baltimore, MD

Topasna, G., Kaltcheva, N., 2018, "Polarimetry of young stars in the MW disk", European Week of Astronomy and Space Science, Liverpool, United Kingdom

Kaltcheva N, Paunzen E, Topasna G., 2017, "Interstellar Extinction and Polarization toward the Open Cluster NGC 1502", European Week of Astronomy and Space Science, Prague, Czech Republic

Kaltcheva N, Morser D., Homogeneous Metallicity Estimates of Open Clusters, EWASS 2017, S07- Bridging the near and the far: from the Milky Way to nearby galaxies, Prague, Czech Republic, June 26-30, 2017

Kaltcheva N., Golev V., Berghea C., Frouard J., Makarov V., 2017, Physical Parameters of Be stars via intermediate-band photometry, ", European Week of Astronomy and Space Science, Prague, Czech Republic

Kaltcheva, N., Topasna, G., Golev, V., 2017, "Strömgren-Hβ Photometry and Optical Polarization Study of Young Open Clusters", Star Formation in Space and Time, Florence, Italy

Topasna, G. A., Kaltcheva, N., 2017, "Interstellar Extinction toward the Young Open Cluster NGC 1502", American Astronomical Society, AAS Meeting #229, id.343.08,

Kaltcheva, N., Golev, V., 2017, "Characterizing Classical Be Stars via Intermediate-Band Photometry", International conference "The B[e] Phenomenon: Forty Years of Studies", Prague, Czech Republic [contributed talk]

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Presentations of UW Oshkosh students (in bold) at national, regional, and local meetings of undergraduate research [abbreviations: National Conference for Undergraduate Research (NCUR), Wisconsin Space Conference (WSC), UW System Symposium for Undergraduate Research and Creative Activity (UWS)]

- 48. Watson M., Kaltcheva N., 2019, Research in the Rotunda, Madison, WI
- 47. Watson M., Kaltcheva N., 2019, NCUR, Kennesaw State University, Kennesaw, GA
- 46. Rose M., Kaltcheva N., 2019, NCUR, Kennesaw State University, Kennesaw, GA
- 45. Rose M., Kaltcheva, N., 2019, UWS, Green Bay, WI
- 44. Morser, D., Kaltcheva, N., 2017, NCUR, Memphis, TN
- 43. Morser, D., Kaltcheva, N., 2017, UW Oshkosh Celebration of Scholarship & Creative Activity
- 42. Morser, D., Kaltcheva, N., McNair Showcase, September 2016, 2017
- 41. Christopherson, C., Kaltcheva, N., 2016, UW Oshkosh Celebration of Scholarship Symposium
- 40. Grosskopf, N., Kaltcheva, N., 2016, NCUR, University of North Carolina Asheville
- 39. LeMieux, H., Kaltcheva, N., 2015, WSC, Oshkosh, WI best poster award
- 38. Christopherson, C., Kaltcheva, N., 2015, WSC, Oshkosh, WI
- 37. LeMieux, H. Robinson, E., Kaltcheva, N., 2015, WSC, Milwaukee, WI
- 36. Lund, S., Robinson, E., LeMieux, H., Grosskopf, N., Christopherson, C., N. Kaltcheva, 2015, UW Oshkosh Celebration of Scholarship Symposium, Oshkosh, WI
- 35. Christopherson, C., Kaltcheva, N., 2015, CUR Posters on the Hill, U.S. Capitol
- 34. Lund, S., Kaltcheva, N., Golev., V., Briley, M., Beaver, J., 2015, NCUR, Spokane, WA
- 33. Christopherson, C., Kaltcheva, N., Golev., V., 2015 NCUR, Spokane, WA
- 32. Grosskopf, Christopherson, LeMieux, Lund, Robinson, Kaltcheva, 2015, Posters in the Rotunda, Madison, WI
- 31. Christopherson, C., Kaltcheva, N., 2014, WAPT meeting, Milwaukee, WI, best poster award
- 30. Christopherson, C., Kaltcheva, N., 2014, Posters in the Rotunda, Madison, WI
- 29. Bartel, S., Kaltcheva, N., 2014, NCUR, Lexington, KY
- 28. Fabbri, V., Conard, T., Kaltcheva, N. 2014, NCUR, Lexington, KY (talk)
- 27. Christopherson, C., Kaltcheva, N., 2014, NCUR, Lexington, KY, April 2-5, 2014 (talk)
- 26. Conard, T., Fabbri, V., Kaltcheva, N., 2013, NCUR, La Crosse, WI (poster)
- 25. Gehrman, T., Moran, K., Kaltcheva, N., 2013, Celebration of Scholarship, UW Oshkosh, April 2013 (poster)
- 24. Bartel, S., Kaltcheva, N., 2013, NCUR, La Crosse, WI (talk)
- 23. Gehrman, T., Moran, K., Kaltcheva, N., 2013, Posters in the Rotunda, Madison, WI
- 22. Matheny, M., Kaltcheva, N., 2012, UWS, UW Parkside
- 21. Bartel, S., Kaltcheva, N., 2012, UWS, UW Parkside
- 20. Moran, K., Kaltcheva, N., 2012, UWS, UW Parkside
- 19. Moran, K., Kaltcheva, N., 2011, WSC, La Crosse, WI
- 18. Moran, K., Kaltcheva, N., 2011, Posters in the Rotunda, Madison, WI

- 17. Moran, K., Kaltcheva, N., 2011, UWS, UW Parkside
- 16. Metko, K., Kaltcheva, N., 2010, UWS, UW-River Falls (poster)
- 15. Metko, K., Kaltcheva, N., 2010, UW Oshkosh Celebration of Scholarship (talk)
- 14. Osterloh L., Kaltcheva N., 2009, NCUR, La Crosse, WI (poster)
- 13. Pichelmeyer J., Kaltcheva N., 2009, NCUR, La Crosse, WI (poster)
- 12. Hathaway C., N. Kaltcheva, 2009, NCUR, La Crosse, WI (poster)
- 11. Hathaway C., N. Kaltcheva, 2009, UW Oshkosh Celebration of scholarship (poster)
- 10. Osterloh L., Kaltcheva N., 2009, UW Oshkosh Celebration of scholarship (poster)
- 9. Pichelmeyer J., Kaltcheva N., 2009, Posters in the Rotunda, Madison, WI
- 8. Kuchera, A., Kaltcheva, N., 2008, Posters in the Rotunda, Madison, WI
- 7. Scorcio, M., Kaltcheva, N., 2008, Posters in the Rotunda, Madison, WI
- 6. Kuchera, A., Kaltcheva, N., 2008, UWS, River Falls, WI (talk)
- 5. Scorcio, M., Kaltcheva, N., 2008, UW Oshkosh Celebration of Scholarship (poster)
- 4. Kuchera, A., Kaltcheva, N., 2007, Posters in the Rotunda, Madison, WI
- 3. Kuchera, A., Kaltcheva, N., 2007, UWS, UW Stout (talk)
- 2. Kuchera, A., Kaltcheva, N., 2007, WSC, UW Superior (talk)
- 1. Giuliani M., Wentworth J., Kaltcheva N., 2004, UW Oshkosh Celebration of scholarship (poster)

Selected Recent Service

International/National Level

- Editorial Board Member, International Journal of Astronomy and Astrophysics, January 2011 present
- Editorial Board Member, American Journal of Physics Resource Letters, (January 2018- 2021)
- National Science Foundation Astronomy and Astrophysics Program, Panelist (2016, 2017, 2019)
- Affiliate member of Coordination Unit 8 (Astrophysical Parameters) of the European Space Agency Gaia Mission (2009-13)

University, College, Department level

- UW Oshkosh representative to the Wisconsin Space Grant Consortium (WSGC) (2004 present)
- UWO Faculty Committee (2023-present)
- UWO "Blind Student Initiative" working group (2022-present)
- Screen and search committee member for the Barlow Planetarium Manager (2022)
- Academic Council for Interdisciplinary Studies (2022-2024)
- McNair Program, Research Advisor (2016-2017)
- UW Oshkosh Faculty Senate (2007 2013)
- Committee on Committees (2008-2011)
- Rosebush Professor Review Committee (2002 -2005, 2006-2009)
- Gender Equity Council (2005-2008)
- Personnel Policies Committee (2008-2013)
- COLS promotion committee (2012-2014, co-chair 2013-2014)
- Physics/Astronomy Department chair (2011-2016), co-chair (2017-2020), regularly serving/chairing various department committees and participating in student recruitment initiatives
- UW Oshkosh student recruitment events: Mathematical Problem-Solving Contest (2022, presenter); "Decision 2022", Preview day/academic fair/Physics department open house on a regular basis
- UW Oshkosh Celebration of Scholarship: judge (2019, 2021, 2022)
- Workshop presenter "Introduction to stellar spectra", Wisconsin Association of Physics Teachers Meeting (October 2016);
 UW Oshkosh CAPP workshop presenter (2018, 2019); CAPP Preview Day (2019), attended Phox Valley Physics and Physical Science Share meetings (2022, 2020, 2019, 2018); CAPP liaison (2017 present)