

Bibliography from ADS file: keller.bib
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- Landman, R., Keller, C., Por, E. H., et al., “Joint optimization of wavefront sensing and reconstruction with automatic differentiation”, 2022arXiv220905904L [ADS](#)
- Boccaletti, A., Chauvin, G., Wildi, F., et al., “Upgrading the high contrast imaging facility SPHERE: science drivers and instrument choices”, 2022arXiv220902092B [ADS](#)
- Mulder, W., Patty, C. H. L., Spadaccia, S., et al., “Spectropolarimetry of life: airborne measurements from a hot air balloon”, 2022arXiv220802317M [ADS](#)
- Snellen, I. A. G., Snik, F., Kenworthy, M., et al., “Detecting life outside our solar system with a large high-contrast-imaging mission”, 2021ExA...tmp...124S [ADS](#)
- Klindžić, D., Stam, D., Snik, F., et al., “LOUPE: Observing the Earth from the Moon to prepare for detecting life on Earth-like exoplanets”, 2021EPSC...15...657K [ADS](#)
- Mulder, W., Doelman, D. S., Keller, C. U., Patty, C. H. L., & Snik, F., “Spatial polarization modulators: distinguishing diffraction effects from spatial polarization modulation”, 2021SPIE11833E...0MM [ADS](#)
- Klindžić, D., Snik, F., Stam, D. M., et al., “Pale polarized dots: spectropolarimetry of the Earth as an exoplanet with LOUPE”, 2021SPIE11833E...06K [ADS](#)
- Keller, C. U. & Snik, F., “Spectropolarimetry”, in A. M. Moore (Ed.), *The WSPC Handbook of Astronomical Instrumentation*, 239–255 2021hai3.book...239K [ADS](#)
- Landman, R., Haffert, S. Y., Radhakrishnan, V. M., & Keller, C. U., “Self-optimizing adaptive optics control with reinforcement learning for high-contrast imaging”, 2021JATIS...7c9002L [ADS](#)
- Doelman, D. S., Snik, F., Por, E. H., et al., “Vector-apodizing phase plate coronagraph: design, current performance, and future development [Invited]”, 2021ApOpt...60D...52D [ADS](#)
- Patty, C. H. L., Kühn, J. G., Lambrev, P. H., et al., “Biosignatures of the Earth. I. Airborne spectropolarimetric detection of photosynthetic life”, 2021A&A...651A...68P [ADS](#)
- Xie, C., Haffert, S. Y., de Boer, J., et al., “A MUSE view of the asymmetric jet from HD 163296”, 2021A&A...650L...6X [ADS](#)
- Doelman, D. S., Wardenier, J. P., Tuthill, P., et al., “First light of a holographic aperture mask: Observation at the Keck OSIRIS Imager”, 2021A&A...649A.168D [ADS](#)
- Kasper, M., Cerpa Urra, N., Pathak, P., et al., “PCS - A Roadmap for Exoearth Imaging with the ELT”, 2021Msngr.182...38K [ADS](#)
- van Holstein, R. G., Stolker, T., Jensen-Clem, R., et al., “A survey of the linear polarization of directly imaged exoplanets and brown dwarf companions with SPHERE-IRDIS. First polarimetric detections revealing disks around DH Tau B and GSC 6214-210 B”, 2021A&A...647A...21V [ADS](#)
- Klindžić, D., Stam, D. M., Snik, F., et al., “LOUPE: observing Earth from the Moon to prepare for detecting life on Earth-like exoplanets”, 2021RSPTA.37990577K [ADS](#)
- Vievard, S., Bos, S. P., Cassaing, F., et al., “Focal plane wavefront sensing on SUBARU/SCEXAO”, 2020SPIE11448E...6DV [ADS](#)
- Haffert, S. Y., Harris, R. J., Zanutta, A., et al., “Multi-core fibre-fed integral-field unit (MCIFU): overview and first-light”, 2020SPIE11448E...4MH [ADS](#)
- Males, J. R., Close, L. M., Guyon, O., et al., “MagAO-X first light”, 2020SPIE11448E...4LM [ADS](#)
- Landman, R., Haffert, S. Y., Radhakrishnan, V. M., & Keller, C. U., “Self-optimizing adaptive optics control with reinforcement learning”, 2020SPIE11448E...49L [ADS](#)
- Haffert, S. Y., Keller, C. U., & Dekany, R., “Using the generalised-optical differentiation wavefront sensor for laser guide star wavefront sensing”, 2020SPIE11448E...1TH [ADS](#)
- Close, L. M., Males, J., Long, J. D., et al., “Prediction of the planet yield of the MaxProtoPlanetS high-contrast survey for H-alpha protoplanets with MagAO-X based on first light contrasts”, 2020SPIE11448E...0UC [ADS](#)
- Girard, J. H., Haffert, S. Y., Bae, J., et al., “Planet formation with all flavors of adaptive optics: VLT/MUSE’s laser tomography adaptive optics to directly image young accreting exoplanets”, 2020SPIE11448E...08G [ADS](#)
- Keller, C. U., Snik, F., Patty, C. H. L., et al., “Design of the life signature detection polarimeter LSDpol”, 2020SPIE11443E...3RK [ADS](#)
- Xie, C., Haffert, S. Y., de Boer, J., et al., “Searching for proto-planets with MUSE”, 2020A&A...644A.149X [ADS](#)
- Haffert, S. Y., Harris, R. J., Zanutta, A., et al., “Diffraction-limited integral-field spectroscopy for extreme adaptive optics systems with the multicore fiber-fed integral-field unit”, 2020JATIS...6d5007H [ADS](#)
- Haffert, S. Y., van Holstein, R. G., Ginski, C., et al., “CS Cha B: A disc-obscured M-type star mimicking a polarised planetary companion”, 2020A&A...640L...12H [ADS](#)
- Haffert, S. Y., van Holstein, R. G., Ginski, C., et al., “VizieR Online Data Catalog: CS Cha B spectrum (Haffert+, 2020)”, 2020yCat...36409012H [ADS](#)
- Bohn, A. J., Kenworthy, M. A., Ginski, C., et al., “Two Directly Imaged, Wide-orbit Giant Planets around the Young, Solar Analog TYC 8998-760-1”, 2020ApJ...898L...16B [ADS](#)
- Bos, S. P., Vievard, S., Wilby, M. J., et al., “On-sky verification of Fast and Furious focal-plane wavefront sensing: Moving forward toward controlling the island effect at Subaru/SCEXAO”, 2020A&A...639A...52B [ADS](#)
- Burggraaf, O., Perduijn, A. B., van Hek, R. F., et al., “A universal smartphone add-on for portable spectroscopy and polarimetry: iSPEX 2”, 2020SPIE11389E...2KB [ADS](#)
- van Holstein, R. G., Girard, J. H., de Boer, J., et al.: 2020, *IRDAP: SPHERE-IRDIS polarimetric data reduction pipeline*, Astrophysics Source Code Library, record ascl:2004.015 2020ascl.soft04015V [ADS](#)
- Boccaletti, A., Chauvin, G., Mouillet, D., et al., “SPHERE+: Imaging young Jupiters down to the snowline”, 2020arXiv200305714B [ADS](#)
- Girard, J. H., de Boer, J., Haffert, S., et al., “Original use of MUSE’s laser tomography adaptive optics to directly image young accreting exoplanets”, 2020arXiv200302145G [ADS](#)
- Haffert, S. Y., Por, E. H., Keller, C. U., et al., “The Single-mode Complex Amplitude Refinement (SCAR) coronagraph. II. Lab verification, and toward the characterization of Proxima b”, 2020A&A...635A...56H [ADS](#)
- Bohn, A. J., Kenworthy, M. A., Ginski, C., et al., “VizieR Online Data Catalog: A planetary-mass companion to a solar-type star (Bohn+, 2020)”, 2020yCat...74920431B [ADS](#)
- Bohn, A. J., Kenworthy, M. A., Ginski, C., et al., “The Young Suns Exoplanet Survey: Detection of a wide-orbit planetary-mass companion to a solar-type Sco-Cen member”, 2020MNRAS.492...431B [ADS](#)
- Hunziker, S., Schmid, H. M., Mouillet, D., et al., “RefPlanets: Search for reflected light from extrasolar planets with SPHERE/ZIMPOL”, 2020A&A...634A...69H [ADS](#)
- van Holstein, R. G., Girard, J. H., de Boer, J., et al., “Polarimetric imaging mode of VLT/SPHERE/IRDIS. II. Characterization and correction of instrumental polarization effects”, 2020A&A...633A...64V [ADS](#)
- de Boer, J., Langlois, M., van Holstein, R. G., et al., “Polarimetric imaging mode of VLT/SPHERE/IRDIS. I. Description, data reduction, and observing strategy”, 2020A&A...633A...63D [ADS](#)
- Vievard, S., Bos, S., Cassaing, F., et al., “Overview of focal plane wavefront sensors to correct for the Low Wind Effect on SUBARU/SCEXAO”, 2019arXiv191210179V [ADS](#)
- Bos, S. P., Doelman, D. S., Lozi, J., et al., “Focal-plane wavefront sensing with the vector-Apodizing Phase Plate”, 2019A&A...632A...48B [ADS](#)
- Miller, K., Males, J. R., Guyon, O., et al., “Spatial linear dark field control and holographic modal wavefront sensing with a vAPP coronagraph on MagAO-X”, 2019JATIS...5d9004M [ADS](#)
- Snik, F., Keller, C. U., Doelman, D. S., et al., “A snapshot full-Stokes spectropolarimeter for detecting life on Earth”, 2019SPIE11132E...0AS [ADS](#)
- Snellen, I., Albrecht, S., Anglada-Escude, G., et al., “ESA Voyage 2050 White Paper: Detecting life outside our solar system with a large high-contrast-imaging mission”, 2019arXiv190801803S [ADS](#)
- Ridden-Harper, A., Snellen, I., Keller, C., et al., “Insights into Terrestrial Planet Compositions and Geophysics from Observations of Magma Worlds”, 2019ESS...431305R [ADS](#)
- Ridden-Harper, A. R., Snellen, I. A. G., Keller, C. U., & Mollière, P., “Search for gas from the disintegrating rocky exoplanet K2-22b”, 2019A&A...628A...70R [ADS](#)
- Heikamp, S. & Keller, C. U., “Polarimetric imaging of circumstellar disks. I. Artifacts due to limited angular resolution”, 2019A&A...627A.156H [ADS](#)
- Haffert, S. Y., Bohn, A. J., de Boer, J., et al., “Two accreting protoplanets around the young star PDS 70”, 2019NatAs...3...749H [ADS](#)
- Bohn, A. J., Kenworthy, M. A., Ginski, C., et al., “Discovery of a directly imaged disk in scattered light around the Sco-Cen member Wray 15-788”, 2019A&A...624A...87B [ADS](#)
- Bohn, A. J., Kenworthy, M. A., Ginski, C., et al., “VizieR Online Data Catalog: Discovery of a resolved disk around Wray 15-788 (Bohn+, 2019)”, 2019yCat...36240087B [ADS](#)
- Schmid, H. M., Bazzon, A., Roelfsema, R., et al., “SPHERE/ZIMPOL high resolution polarimetric imager. I. System overview, PSF parameters, coronagraphy, and polarimetry”, 2018A&A...619A...9S [ADS](#)
- Ridden-Harper, A. R., Keller, C. U., Min, M., van Lieshout, R., & Snellen, I. A. G., “Chromatic transit light curves of disintegrating rocky planets”, 2018A&A...618A...97R [ADS](#)
- Ruane, G., Riggs, A., Mazoyer, J., et al., “Review of high-contrast imaging systems for current and future ground- and space-based telescopes I: coronagraph design methods and optical performance metrics”, 2018SPIE10698E...2SR [ADS](#)
- Ginski, C., Benisty, M., van Holstein, R. G., et al., “First direct detection of a polarized companion outside a resolved circumbinary disk around CS Chamaeleonis”, 2018A&A...616A...79G [ADS](#)

- Snik, F., Absil, O., Baudoz, P., et al., “Review of high-contrast imaging systems for current and future ground-based and space-based telescopes III: technology opportunities and pathways”, 2018SPIE10706E..2LS ADS
- Radhakrishnan, V. M., Keller, C. U., & Doelman, N., “Optimization of contrast in adaptive optics for exoplanet imaging”, 2018SPIE10703E..4NR ADS
- Haffert, S. Y., Wilby, M. J., Keller, C. U., et al., “On-sky results of the Leiden Exoplanet Instrument (LEXI)”, 2018SPIE10703E..23H ADS
- Jovanovic, N., Absil, O., Baudoz, P., et al., “Review of high-contrast imaging systems for current and future ground-based and space-based telescopes: Part II. Common path wavefront sensing/control and coherent differential imaging”, 2018SPIE10703E..1UJ ADS
- Males, J. R., Close, L. M., Miller, K., et al., “MagAO-X: project status and first laboratory results”, 2018SPIE10703E..09M ADS
- Kenworthy, M. A., Snik, F., Keller, C. U., et al., “High contrast imaging for the enhanced resolution imager and spectrometer (ERIS)”, 2018SPIE10702E..46K ADS
- Davies, R., Esposito, S., Schmid, H. M., et al., “ERIS: revitalising an adaptive optics instrument for the VLT”, 2018SPIE10702E..09D ADS
- Doelman, D. S., Tuthill, P., Norris, B., et al., “Multiplexed holographic aperture masking with liquid-crystal geometric phase masks”, 2018SPIE10701E..07D ADS
- Wilby, M. J., Keller, C. U., Sauvage, J. F., et al., “Laboratory verification of Fast & Furious phase diversity: Towards controlling the low wind effect in the SPHERE instrument”, 2018A&A...615A..34W ADS
- Ginski, C., van Holstein, R., Juhász, A., et al., “A Planet with a Disc? A Surprising Detection in Polarised Light with VLT/SPHERE”, 2018Msngr.172...27G ADS
- Haffert, S. Y., Por, E. H., Keller, C. U., et al., “The Single-mode Complex Amplitude Refinement (SCAR) coronagraph: II. Lab verification, and toward the characterization of Proxima b”, 2018arXiv180310693H ADS
- Laan, E., Stam, D., Snik, F., et al., “The Spectropolarimeter for Planetary Exploration: SPEX”, 2017SPIE10566E..2GL ADS
- Rietjens, J. H. H., Snik, F., Stam, D. M., et al., “SPEX: the Spectropolarimeter for Planetary Exploration”, 2017SPIE10565E..1CR ADS
- Rietjens, J. H. H., Smit, J. M., di Noia, A., et al., “SPEX: a highly accurate spectropolarimeter for atmospheric aerosol characterization”, 2017SPIE10563E..44R ADS
- Harrington, D. M., Snik, F., Keller, C. U., Sueoka, S. R., & van Harten, G., “Polarization modeling and predictions for DKIST part 2: application of the Berreman calculus to spectral polarization fringes of beamsplitters and crystal retarders”, 2017JATIS...3d8001H ADS
- van Holstein, R. G., Snik, F., Girard, J. H., et al., “Combining angular differential imaging and accurate polarimetry with SPHERE/IRDIS to characterize young giant exoplanets”, 2017SPIE10400E..15V ADS
- Garufi, A., Benisty, M., Stolker, T., et al., “Three Years of SPHERE: The Latest View of the Morphology and Evolution of Protoplanetary Discs”, 2017Msngr.169...32G ADS
- Mahapatra, G., Stam, D. M., Rossi, L., et al., “Investigating circular patterns in linear polarization observations of Venus”, 2017EPSC...11..885M ADS
- Bos, S. P., Haffert, S. Y., & Keller, C. U., “Rigorous vector wave propagation for arbitrary flat media”, 2017SPIE10407E..09B ADS
- de Boer, J., Girard, J. H., Canovas, H., et al., “BP Piscium: its flaring disc imaged with SPHERE/ZIMPOL?”, 2017MNRAS.466L...7D ADS
- Otten, G. P. L., Snik, F., Kenworthy, M. A., et al., “On-sky Performance Analysis of the Vector Apodizing Phase Plate Coronagraph on MagAO/Clio2”, 2017ApJ...834..1750 ADS
- Wilby, M. J., Keller, C. U., Snik, F., Korkiakoski, V., & Pietrow, A. G. M., “The coronagraphic Modal Wavefront Sensor: a hybrid focal-plane sensor for the high-contrast imaging of circumstellar environments”, 2017A&A...597A..112W ADS
- van Lieshout, R., Min, M., Dominik, C., et al., “Dusty tails of evaporating exoplanets. II. Physical modelling of the KIC 12557548b light curve”, 2016A&A...596A..32V ADS
- de Boer, J., Salter, G., Benisty, M., et al., “Multiple rings in the transition disk and companion candidates around RX J1615.3-3255. High contrast imaging with VLT/SPHERE”, 2016A&A...595A.114D ADS
- Ginski, C., Stolker, T., Pinilla, P., et al., “Direct detection of scattered light gaps in the transitional disk around HD 97048 with VLT/SPHERE”, 2016A&A...595A.112G ADS
- Mouis, O., Atkinson, D. H., Spilker, T., et al., “The Hera Saturn entry probe mission”, 2016P&SS...130...80M ADS
- Mouis, O., Atkinson, D. H., Amato, M., et al., “HERA: an atmospheric probe to unveil the depths of Saturn”, 2016DPS...4812328M ADS
- Ridden-Harper, A. R., Snellen, I. A. G., Keller, C. U., et al., “Search for an exosphere in sodium and calcium in the transmission spectrum of exoplanet 55 Cancri e”, 2016A&A...593A.129R ADS
- Keller, C. U., “Novel instrument concepts for characterizing directly imaged exoplanets”, 2016SPIE.9908E..9VK ADS
- Haffert, S. Y., Wilby, M. J., Keller, C. U., & Snellen, I. A. G., “The Leiden Exoplanet Instrument (LEXI): a high-contrast high-dispersion spectrograph”, 2016SPIE.9908E..67H ADS
- Carlomagno, B., Absil, O., Kenworthy, M., et al., “End-to-end simulations of the E-ELT/METIS coronagraphs”, 2016SPIE.9909E..73C ADS
- Wilby, M. J., Keller, C. U., Sauvage, J. F., et al., “A “Fast and Furious” solution to the low-wind effect for SPHERE at the VLT”, 2016SPIE.9909E..6CW ADS
- Por, E. H. & Keller, C. U., “Focal-plane electric field sensing with pupil-plane holograms”, 2016SPIE.9909E..59P ADS
- Roelfsema, R., Bazzon, A., Schmid, H. M., et al., “The ZIMPOL high contrast imaging polarimeter for SPHERE: polarimetric high contrast commissioning results”, 2016SPIE.9909E..27R ADS
- Wilby, M. J., Keller, C. U., Haffert, S., et al., “Designing and testing the coronagraphic Modal Wavefront Sensor: a fast non-common path error sensor for high-contrast imaging”, 2016SPIE.9909E..21W ADS
- Keller, C. U., Snik, F., Harrington, D. M., & Packham, C., “Instrumentation”, in Polarimetry of Stars and Planetary Systems, 35 2015psps.book...35K ADS
- Snellen, I., de Kok, R., Birkby, J. L., et al., “Combining high-dispersion spectroscopy with high contrast imaging: Probing rocky planets around our nearest neighbors”, 2015A&A...576A..59S ADS
- Kochukhov, O., Rusomarov, N., Valenti, J. A., et al., “Magnetic field topology and chemical spot distributions in the extreme Ap star HD 75049”, 2015A&A...574A..79K ADS
- Jeffers, S. V., Min, M., Waters, L. B. F. M., et al., “Surprising detection of an equatorial dust lane on the AGB star IRC+10216”, 2014A&A...572A..3J ADS
- Snik, F., Rietjens, J. H. H., Apituley, A., et al., “Mapping atmospheric aerosols with a citizen science network of smartphone spectropolarimeters”, 2014GeoRL...41.7351S ADS
- Korkiakoski, V., Keller, C. U., Doelman, N., et al., “Focal-plane wavefront sensing with high-order adaptive optics systems”, 2014SPIE.9148E..5DK ADS
- Heikamp, S., Brandl, B. R., Keller, C. U., et al., “Drift scanning technique for mid-infrared background subtraction”, 2014SPIE.9147E..9TH ADS
- de Boer, J., Girard, J. H., Mawet, D., et al., “Characterizing instrumental effects on polarization at a Nasmyth focus using NaCo”, 2014SPIE.9147E..87D ADS
- Roelfsema, R., Bazzon, A., Schmid, H. M., et al., “The ZIMPOL high contrast imaging polarimeter for SPHERE: system test results”, 2014SPIE.9147E..3WR ADS
- Korkiakoski, V., Keller, C. U., Doelman, N., et al., “Fast & Furious focal-plane wavefront sensing”, 2014ApOpt...53.4565K ADS
- Hoelijmakers, H. J., Snik, F., Stam, D. M., & Keller, C. U., “LOUPE: Spectropolarimetry of the Earth from the surface of the Moon”, 2014EPSC...9...574H ADS
- Keller, C. U., Korkiakoski, V., Rodenhuis, M., & Snik, F., “Towards Polarimetric Exoplanet Imaging with ELTs”, 2014ebi...conf..4.6K ADS
- de Juan Ovelar, M., Snik, F., Keller, C. U., & Venema, L., “Instrumental polarisation at the Nasmyth focus of the E-ELT”, 2014A&A...562A..8D ADS
- Jeffers, S. V., Min, M., Canovas, H., Rodenhuis, M., & Keller, C. U., “Imaging the circumstellar environment of the young T Tauri star SU Aurigae”, 2014A&A...561A..23J ADS
- van Werkhoven, T. I. M., Brogi, M., Snellen, I. A. G., & Keller, C. U., “Analysis and interpretation of 15 quarters of Kepler data of the disintegrating planet KIC 12557548 b”, 2014A&A...561A..3V ADS
- Korkiakoski, V., Doelman, N., Codona, J., et al., “Calibrating a high-resolution wavefront corrector with a static focal-plane camera”, 2013ApOpt...52.7554K ADS
- Rusomarov, N., Kochukhov, O., Piskunov, N., et al., “Three-dimensional magnetic and abundance mapping of the cool Ap star HD 24712. I. Spectropolarimetric observations in all four Stokes parameters”, 2013A&A...558A..8R ADS
- Kochukhov, O., Makaganiuk, V., Piskunov, N., et al., “Are there tangled magnetic fields on HgMn stars?”, 2013A&A...554A..61K ADS
- Min, M., Jeffers, S. V., Canovas, H., et al., “The color dependent morphology of the post-AGB star HD 161796”, 2013A&A...554A..15M ADS
- Johns-Krull, C. M., Chen, W., Valenti, J. A., et al., “Magnetically Controlled Accretion on the Classical T Tauri Stars GQ Lupi and TW Hydrae”, 2013ApJ...765...11J ADS
- Snik, F. & Keller, C. U., “Astronomical Polarimetry: Polarized Views of Stars and Planets”, in T. D. Oswalt and H. E. Bond (Eds.), Planets, Stars and Stellar Systems. Volume 2: Astronomical Techniques, Software and Data, 175 2013ps2.book..175S ADS
- Rodenhuis, M., Canovas, H., Jeffers, S. V., Min, M., & Keller, C. U., “Observing Circumstellar Neighbourhoods with the Extreme Polarimeter”, 2013ASPC...470..407R ADS

- Keller, C. U., “*Sterrekundig Instituut Utrecht: The Last Years*”, 2013ASPC..470...3K [ADS](#)
- Johns-Krull, C. M., Chen, W., Valenti, J. A., et al., “*HARPS Spectropolarimetry of the Classical T Tauri Stars GQ Lup and TW Hya*”, 2013AAS...22125614J [ADS](#)
- Karalidi, T., Stam, D. M., Snik, F., et al., “*Observing the Earth as an exoplanet with LOUPE, the lunar observatory for unresolved polarimetry of Earth*”, 2012P&SS...74..202K [ADS](#)
- Keller, C., Freund, F. T., & Cruikshank, D. P., “*Electric Properties of Water Ice doped with Hydrogen Peroxide (H₂O₂): Implications for Icy Moons such as Europa*”, 2012AGUFM.P51A2026K [ADS](#)
- Fischer, C. E., Keller, C. U., Snik, F., Fletcher, L., & Socas-Navarro, H., “*Unusual Stokes V profiles during flaring activity of a delta sunspot*”, 2012A&A...547A..34F [ADS](#)
- Boccaletti, A., Schneider, J., Traub, W., et al., “*SPICES: spectro-polarimetric imaging and characterization of exoplanetary systems. From planetary disks to nearby Super Earths*”, 2012ExA...34..355B [ADS](#)
- Karalidi, T., Stam, D. M., Snik, F., et al., “*Searching for signs of habitability with LOUPE, the Lunar Observatory of Unresolved Polarimetry of Earth*”, 2012epsc.conf..537K [ADS](#)
- Korkiakoski, V., Venema, L., Agocs, T., et al., “*Potential of phase-diversity for metrology of active instruments*”, 2012SPIE.8450E..5DK [ADS](#)
- de Juan Ovelar, M., Diamantopoulou, S., Roelfsema, R., et al., “*Modeling the instrumental polarization of the VLT and E-ELT telescopes with the M&M's code*”, 2012SPIE.8449E..12D [ADS](#)
- Rodenhuis, M., Sprenger, B., & Keller, C. U., “*A spectro-polarimetric integral field spectrograph for EPICS-EPOL*”, 2012SPIE.8446E..9JR [ADS](#)
- Rodenhuis, M., Canovas, H., Jeffers, S. V., et al., “*The extreme polarimeter: design, performance, first results and upgrades*”, 2012SPIE.8446E..9IR [ADS](#)
- Broggi, M., Keller, C. U., de Juan Ovelar, M., et al., “*Evidence for the disintegration of KIC 12557548 b*”, 2012A&A...545L..5B [ADS](#)
- Andrei, R. M., Smith, C. S., Fraanje, R., et al., “*Linear analytical solution to the phase diversity problem for extended objects based on the Born approximation*”, 2012SPIE.8447E..6UA [ADS](#)
- Andrei, R. M., Fraanje, R., Verhaegen, M., et al., “*Bilinear solution to the phase diversity problem for extended objects based on the Born approximation*”, 2012SPIE.8447E..6TA [ADS](#)
- Korkiakoski, V., Keller, C. U., Doelman, N., et al., “*Experimental validation of optimization concepts for focal-plane image processing with adaptive optics*”, 2012SPIE.8447E..5ZK [ADS](#)
- van Werkhoven, T. I. M., Homs, L., Sliepen, G., Rodenhuis, M., & Keller, C. U., “*FOAM: the modular adaptive optics framework*”, 2012SPIE.8447E..2VV [ADS](#)
- Keller, C. U., Korkiakoski, V., Doelman, N., et al., “*Extremely fast focal-plane wavefront sensing for extreme adaptive optics*”, 2012SPIE.8447E..21K [ADS](#)
- Wilkerson, J. F., Aguayo, E., Avignone, F. T., I., et al., “*The Majorana Demonstrator: A Search for Neutrinoless Double-beta Decay of Germanium-76*”, 2012JPhCS.375d2010W [ADS](#)
- Giovanetti, G. K., Aguayo, E., Avignone, F. T., I., et al., “*Dark matter sensitivities of the Majorana Demonstrator*”, 2012JPhCS.375a2014G [ADS](#)
- Canovas, H., Min, M., Jeffers, S. V., Rodenhuis, M., & Keller, C. U., “*Constraining the circumbinary envelope of Z Canis Majoris via imaging polarimetry*”, 2012A&A...543A..70C [ADS](#)
- Gonser, M., Keller, C., Hansen, J., et al., “*Simulation of automotive EMC emission test procedures based on cable bundle measurements*”, 2012imsd.conf59432G [ADS](#)
- Johns-Krull, C. M., Valenti, J. A., Jeffers, S. V., et al., “*HARPS spectropolarimetry of classical T Tauri stars*”, 2012AIPC.1429...43J [ADS](#)
- Smit, J. M., Rietjens, J. H. H., Hasekamp, O., et al., “*SPEX2Earth, a novel spectropolarimeter for remote sensing of aerosols and clouds*”, 2012EGUGA..1414166S [ADS](#)
- Karalidi, T., Stam, D. M., Snik, F., et al., “*Observing the Earth as an exoplanet*”, 2012EGUGA..1410571K [ADS](#)
- Einarsen, L. J., Rodenhuis, M., Snik, F., et al., “*Multiwavelength imaging polarimetry of Venus at various phase angles*”, 2012EGUGA..14.8670E [ADS](#)
- Keller, C. U. & Stam, D. M., “*Planetary science: In search of biosignatures*”, 2012Natur.483...38K [ADS](#)
- Makaganiuk, V., Kochukhov, O., Piskunov, N., et al., “*Magnetism, chemical spots, and stratification in the HgMn star ϕ Phoenicis*”, 2012A&A...539A.142M [ADS](#)
- Jeffers, S. V., Min, M., Waters, L. B. F. M., et al., “*Direct imaging of a massive dust cloud around R Coronae Borealis*”, 2012A&A...539A..56J [ADS](#)
- Min, M., Canovas, H., Mulders, G. D., & Keller, C. U., “*The effects of disk and dust structure on observed polarimetric images of protoplanetary disks*”, 2012A&A...537A..75M [ADS](#)
- Karalidi, T., Stam, D. M., & Keller, C. U., “*Signatures of Water Clouds on Exoplanets: Numerical Simulations*”, 2011ASPC..450..101K [ADS](#)
- Kochukhov, O., Snik, F., Piskunov, N., et al., “*New Insights into Stellar Magnetism from the Spectropolarimetry in All Four Stokes Parameters*”, 2011ASPC..448..245K [ADS](#)
- Jeffers, S. V., Canovas, H., Keller, C. U., Min, M., & Rodenhuis, M., “*Innovative Imaging of Young Stars: First Light ExPo Observations*”, 2011ASPC..448...15J [ADS](#)
- Voors, R., Moon, S. G., Hannemann, S., et al., “*Spectropolarimeter for planetary exploration (SPEX): performance measurements with a prototype*”, 2011SPIE.8176E..0DV [ADS](#)
- Jeffers, S. V., Miesen, N., Rodenhuis, M., Keller, C. U., & Canovas, H., “*Simulating Polarized Light from Exoplanets*”, 2011ASPC..449..391J [ADS](#)
- Canovas, H., Rodenhuis, M., Jeffers, S. V., & Keller, C. U., “*Data Reduction Approach for the Extreme Polarimeter*”, 2011ASPC..449...79C [ADS](#)
- Rodenhuis, M., Canovas, H., Jeffers, S., & Keller, C., “*Design and Prototype Results of the ExPo Imaging Polarimeter*”, 2011ASPC..449...33R [ADS](#)
- van Harten, G., Snik, F., Rietjens, J. H. H., et al., “*Prototyping for the Spectropolarimeter for Planetary Exploration (SPEX): calibration and sky measurements*”, 2011SPIE.8160E..0ZV [ADS](#)
- de Juan Ovelar, M., Snik, F., & Keller, C. U., “*M&M's: an error budget and performance simulator code for polarimetric systems*”, 2011SPIE.8160E..0CD [ADS](#)
- Roelfsema, R., Gisler, D., Prag, J., et al., “*The ZIMPOL high contrast imaging polarimeter for SPHERE: sub-system test results*”, 2011SPIE.8151E..0NR [ADS](#)
- Kochukhov, O., Makaganiuk, V., Piskunov, N., et al., “*No magnetic field in the spotted HgMn star μ Leporis*”, 2011A&A...534L..13K [ADS](#)
- Vitas, N., Fischer, C. E., Vögler, A., & Keller, C. U., “*Fast horizontal flows in a quiet sun MHD simulation and their spectroscopic signatures*”, 2011A&A...532A.110V [ADS](#)
- Makaganiuk, V., Kochukhov, O., Piskunov, N., et al., “*The search for magnetic fields in mercury-manganese stars*”, 2011IAUS..272..202M [ADS](#)
- Boccaletti, A., Baudoz, P., Mawet, D., et al., “*Spectral and polarimetric characterization of gaseous and telluric planets with SEE COAST*”, 2011EPJWC...1607002B [ADS](#)
- Canovas, H., Rodenhuis, M., Jeffers, S. V., Min, M., & Keller, C. U., “*Data-reduction techniques for high-contrast imaging polarimetry. Applications to ExPo*”, 2011A&A...531A.102C [ADS](#)
- Kochukhov, O., Makaganiuk, V., Piskunov, N., et al., “*First Detection of Linear Polarization in the Line Profiles of Active Cool Stars*”, 2011ApJ...732L..19K [ADS](#)
- Makaganiuk, V., Kochukhov, O., Piskunov, N., et al., “*Chemical spots in the absence of magnetic field in the binary HgMn star 66 Eridani*”, 2011A&A...529A.160M [ADS](#)
- Bettonvil, F. C. M., Collados, M., Feller, A., et al., “*The Polarization Optics for the European Solar Telescope*”, 2011ASPC..437..329B [ADS](#)
- Snik, F., Kochukhov, O., Piskunov, N., et al., “*The HARPS Polarimeter*”, 2011ASPC..437..237S [ADS](#)
- Piskunov, N., Snik, F., Dolgoplov, A., et al., “*HARPSpol - The New Polarimetric Mode for HARPS*”, 2011Msngr.143...7P [ADS](#)
- Makaganiuk, V., Kochukhov, O., Piskunov, N., et al., “*The search for magnetic fields in mercury-manganese stars*”, 2011A&A...525A..97M [ADS](#)
- Snik, F., Keller, C., Ovelar, M. J., et al., “*EPOL: the exoplanet polarimeter for EPICS at the E-ELT*”, 2010lyot.confE..82S [ADS](#)
- Min, M., Jeffers, S. V., Rodenhuis, M., et al., “*Imaging polarimetry of protoplanetary disks: feasibility and usability*”, 2010lyot.confE..34M [ADS](#)
- Rodenhuis, M., Canovas, H., Jeffers, S. V., Min, M., & Keller, C. U., “*Imaging polarimetry of circumstellar environments with the Extreme Polarimeter*”, 2010lyot.confE..20R [ADS](#)
- Snik, F., de Wijn, A. G., Ichimoto, K., et al., “*Observations of solar scattering polarization at high spatial resolution*”, 2010A&A...519A..18S [ADS](#)
- Bettonvil, F. C. M., Collados, M., Feller, A., et al., “*The polarization optics for the European Solar Telescope (EST)*”, 2010SPIE.7735E..61B [ADS](#)
- Keller, C. U., Schmid, H. M., Venema, L. B., et al., “*EPOL: the exoplanet polarimeter for EPICS at the E-ELT*”, 2010SPIE.7735E..6GK [ADS](#)
- Roelfsema, R., Schmid, H. M., Prag, J., et al., “*The ZIMPOL high-contrast imaging polarimeter for SPHERE: design, manufacturing, and testing*”, 2010SPIE.7735E..4BR [ADS](#)
- Kasper, M., Beuzit, J.-L., Verinaud, C., et al., “*EPICS: direct imaging of exoplanets with the E-ELT*”, 2010SPIE.7735E..2EK [ADS](#)
- Snik, F., Rietjens, J. H. H., van Harten, G., et al., “*SPEX: the spectropolarimeter for planetary exploration*”, 2010SPIE.7731E..1BS [ADS](#)
- Mei, D. M., Yin, Z. B., Spaans, J., et al., “*Prediction of underground argon content for dark matter experiments*”, 2010PhRvC..81e5802M [ADS](#)
- Kasper, M., Beuzit, J. L., Verinaud, C., et al., “*EPICS, the exoplanet imager for the E-ELT*”, 2010aoel.confE2009K [ADS](#)
- Fischer, C. E., Keller, C. U., & Snik, F., “*Inversions of High-Cadence SOLIS-VSM Stokes Observations*”, 2010ASSP...19..515F [ADS](#)
- Becher, H. M., Fischer, C., & Keller, C., “*Two Ways of Improving Stokes Inversions*”, 2009ASPC..415..160B [ADS](#)

- Fischer, C. E., de Wijn, A. G., Centeno, R., Lites, B. W., & Keller, C. U., “Statistics of Convective Collapse Events in the Photosphere and Chromosphere Observed with the HINODE SOT”, 2009ASPC..415..127F ADS
- Stam, D. M., Smit, J. M., Snik, F., & Keller, C. U., “The case for spectropolarimetry with SPEX on AEGIS”, 2009epsc.conf..536S ADS
- Fischer, C. E., de Wijn, A. G., Centeno, R., Lites, B. W., & Keller, C. U., “Statistics of convective collapse events in the photosphere and chromosphere observed with the Hinode SOT”, 2009A&A...504..583F ADS
- Ren, D., Keller, C., & Plymate, C., “An IFU for diffraction-limited 3D spectroscopic imaging: laboratory and on-site tests”, 2009SPIE.7438E..18R ADS
- Canovas, H., Rodenhuis, M., Jeffers, S. V., & Keller, C. U., “Polarimetric Measurements of Protoplanetary Disks with ExPo”, 2009AIPC.1158..381C ADS
- Pouschat, P., Rose, J., Alliot, I., et al., “Bioaccumulated manganese and nickel in endemic plants from New Caledonian mining soils”, 2009GeCAS..73R1049P ADS
- Snik, F., Melich, R., & Keller, C. U., “The Prototype of the Small Synoptic Second Solar Spectrum Telescope (S5T)”, 2009ASPC..405..383S ADS
- Keller, C. U. & Snik, F., “Polarimetry from the Ground Up”, 2009ASPC..405..371K ADS
- Fischer, C. E., Keller, C. U., & Snik, F., “Vector Magnetic Field Inversions of High Cadence SOLIS-VSM Data”, 2009ASPC..405..311F ADS
- Henney, C. J., Keller, C. U., Harvey, J. W., et al., “SOLIS Vector Spectromagnetograph: Status and Science”, 2009ASPC..405..47H ADS
- Keller, C. U., “A Brief History of the Second Solar Spectrum”, 2009ASPC..405..29K ADS
- van Harten, G., Snik, F., & Keller, C. U., “Polarization Properties of Real Aluminum Mirrors. I. Influence of the Aluminum Oxide Layer”, 2009PASP..121..377V ADS
- Schneider, J., Boccaletti, A., Mawet, D., et al., “Super earth explorer: a coronagraphic off-axis space telescope”, 2009ExA...23..357S ADS
- Jeffers, S. V. & Keller, C. U., “An analytical model to demonstrate the reliability of reconstructed active longitudes”, 2009AIPC.1094..664J ADS
- Tinetti, G., Cash, W., Glassman, T., et al., “Characterization of Extra-solar Planets with Direct-Imaging Techniques”, 2009astro2010S.296T ADS
- Stam, D. M., Laan, E., Snik, F., et al., “Polarimetry of Mars with SPEX, an Innovative Spectropolarimeter”, 2008LPICo1447.9078S ADS
- Ayres, T., Penn, M., Plymate, C., & Keller, C., “A New Era in Solar Thermal-IR Astronomy: the NSO Array Camera (NAC) on the McMath-Pierce Telescope”, 2008ESPM...12..2.74A ADS
- Jeffers, S. V., Miesen, N., Rodenhuis, M., & Keller, C. U., “Design of a laboratory simulator to test exoplanet imaging polarimetry”, 2008SPIE.7014E..7BJ ADS
- Rodenhuis, M., Canovas, H., Jeffers, S. V., & Keller, C. U., “The Extreme Polarimeter (ExPo): design of a sensitive imaging polarimeter”, 2008SPIE.7014E..6TR ADS
- Thalmann, C., Schmid, H. M., Boccaletti, A., et al., “SPHERE ZIMPOL: overview and performance simulation”, 2008SPIE.7014E..3FT ADS
- Snik, F., Jeffers, S., Keller, C., et al., “The upgrade of HARPS to a full-Stokes high-resolution spectropolarimeter”, 2008SPIE.7014E..00S ADS
- Snik, F., Karalidi, T., Keller, C., et al., “SPEX: an in-orbit spectropolarimeter for planetary exploration”, 2008SPIE.7010E..15S ADS
- Keller, C. U., Harvey, J. W., & Henney, C. J., “New Observations of the Magnetic Vector Field across the Solar Disk”, 2008ASPC..384..166K ADS
- Rodenhuis, M. & Keller, C. U., “Design Options for the Extreme Polarimeter (ExPo)”, 2007lyot.confQ..43R ADS
- Jeffers, S. V., Keller, C. U., Rodenhuis, M., & Miesen, N., “Science Goals of the Extreme Polarimeter (ExPo)”, 2007lyot.confE..42J ADS
- Harvey, J. W., Branston, D., Henney, C. J., et al., “Seething Horizontal Magnetic Fields in the Quiet Solar Photosphere”, 2007AAS...21010001H ADS
- Harvey, J. W., Branston, D., Henney, C. J., Keller, C. U., & SOLIS and GONG Teams, “Seething Horizontal Magnetic Fields in the Quiet Solar Photosphere”, 2007ApJ...659L.177H ADS
- Snik, F., Bettonvil, F. C. M., Jägers, A. P. L., et al., “The Ba II 4554/H β Imaging Polarimeter for the Dutch Open Telescope”, 2006ASPC..358..205S ADS
- Henney, C. J., Keller, C. U., & Harvey, J. W., “SOLIS-VSM Solar Vector Magnetograms”, 2006ASPC..358...92H ADS
- Keller, C. U., “High-Resolution Surface Observations and What They Can Tell MHD Simulations”, 2006ASPC..354...3K ADS
- Ayres, T. R., Plymate, C., & Keller, C. U., “Solar Carbon Monoxide, Thermal Profiling, and the Abundances of C, O, and Their Isotopes”, 2006ApJS..165..618A ADS
- Ren, D., Keller, C., & Plymate, C., “Development of an IFU for diffraction-limited 3D spectropolarimetry”, 2006SPIE.6269E..5ZR ADS
- Keller, C. U., “Design of a polarimeter for extrasolar planetary systems characterization”, 2006SPIE.6269E..0TK ADS
- Potter, A. E., Plymate, C., Keller, C., Killen, R. M., & Morgan, T. H., “Mapping sodium distribution in the exosphere of Mercury with tip-tilt image stabilization”, 2006AdSpR..38..599P ADS
- Keller, C. U., “C3Po—The Ultimate Focal Plane Array for Imaging Polarimetry from 200 nm to 20 μ m”, 2005ASPC..343...33K ADS
- Socas-Navarro, H., Elmore, D. F., Keller, C. U., et al., “High precision polarimetry with the Advanced Technology Solar Telescope”, 2005SPIE.5901...52S ADS
- Henney, C. J., Harvey, J. W., & Keller, C. U., “SOLIS-VSM Synoptic Products”, 2005AGUSMSP51A..04H ADS
- Jones, H. P., Malanushenko, O. V., Harvey, J. W., Henney, C. J., & Keller, C. U., “Reduction of SOLIS/Vector Spectromagnetograph He I 1083 nm Observations”, 2005AGUSMSP51A..02J ADS
- Ayres, T. R., Plymate, C., Keller, C., & Kurucz, R. L., “The Solar Oxygen Abundance, and the Rare Isotopes of C and O, Derived from Infrared Spectra of Carbon Monoxide”, 2005AGUSMSP41B..09A ADS
- Rimmele, T., Balasubramaniam, K., Berger, T., et al., “First-Light Instrumentation for the Advanced Technology Solar Telescope”, 2005AGUSMSP34A..03R ADS
- Hill, F., Suarez-Sola, I., Harvey, J. W., et al., “Are You Being Served? - Solar Data Management at the National Solar Observatory”, 2005AGUSMSP43B..04H ADS
- Keller, C. U., “Adaptive Optics Observations of the Sun”, 2005sao.conf..119K ADS
- Keller, C. U., Harvey, J. W., Henney, C. J., & Jones, H. P., “Helicity and the SOLIS Vector-Spectromagnetograph”, 2005HiA...13..126K ADS
- Rimmele, T. R., Hubbard, R. P., Balasubramaniam, K. S., et al., “Instrumentation for the Advanced Technology Solar Telescope”, 2004SPIE.5492..944R ADS
- Keller, C. U. & Krucker, S., “Radio Observations of the Quiet Sun”, 2004ASSL..314..287K ADS
- “Solar and Space Weather Radiophysics - Current Status and Future Developments”, 2004ASSL..314....G ADS
- Judge, P. G., Elmore, D. F., Lites, B. W., Keller, C. U., & Rimmele, T., “Evaluation of Seeing-Induced Cross Talk in Tip-Tilt-Corrected Solar Polarimetry”, 2004ApOpt..43.3817J ADS
- Keller, C. U., Schüssler, M., Vögler, A., & Zakharov, V., “On the Origin of Solar Faculae”, 2004ApJ...607L..59K ADS
- Diner, D. J., Chipman, R. A., Cairns, B., et al., “High-accuracy Multiangle Spectropolarimetric Imaging Concept for Aerosol Remote Sensing from Space”, 2004AGUSMGC51A..07D ADS
- Potter, A. E., Plymate, C., Keller, C., Killen, R. M., & Morgan, T. H., “Improved Spatial Resolution of the Sodium Distribution on Mercury”, 2004AAS...204.6407P ADS
- Wang, H., Qu, M., Shih, F., et al., “Innovative Information Technology for Space Weather Research”, 2004AAS...204.5209W ADS
- Clark, T. A., Plymate, C., Bergman, M. W., & Keller, C. U., “Evershed Flow of CO at Different Depths in a Sunspot Penumbra”, 2004AAS...204.3720C ADS
- Jones, H. P., Harvey, J. W., Henney, C. J., Keller, C. U., & Malanushenko, O. M., “Measurement Scale of the SOLIS Vector Spectromagnetograph”, 2004AAS...204.3703J ADS
- Henney, C. J., Harvey, J. W., Keller, C. U., & Jones, H. P., “SOLIS-VSM Longitudinal Magnetogram Calibration”, 2004AAS...204.3702H ADS
- Harvey, J., Giampapa, M., Henney, C., Keller, C., & Jones, H., “Early Results from SOLIS”, 2004AAS...204.3701H ADS
- Harvey, J., Keller, C. U., Cole, L., Tucker, R., & Jaksha, D., “High-speed cameras and solar observing”, 2004SPIE.5171..258H ADS
- Keller, C. U., “Charge caching CMOS detector for polarimetry (C³Po)”, 2004SPIE.5171..239K ADS
- Oschmann, J., Dalrymple, N., Warner, M., et al., “Advanced Technology Solar Telescope: a progress report”, 2004SPIE.5171..1600 ADS
- Potter, A., Plymate, C., Keller, C., Killen, R., & Morgan, T., “Mapping sodium distribution on the surface of Mercury”, 2004cosp...35.1293P ADS
- Harvey, J., Giampapa, M., Henney, C., Jones, H., & Keller, C., “First Results from SOLIS”, 2003AGUFMSH42B0545H ADS
- Sheeley, N. R., J. & Keller, C. U., “Linear Polarization Measurements of Chromospheric Emission Lines”, 2003ApJ...594.1085S ADS
- Keller, C. U. & SOLIS Team, “The SOLIS Vector-Spectromagnetograph (VSM)”, 2003SPD...34.2023K ADS
- Keil, S., Rimmele, T., Oschmann, J., et al., “Advanced Technology Solar Telescope - Approach to a Four-meter Diffraction Limited Solar Telescope”, 2003SPD...34.2019K ADS
- Henney, C. J., Harvey, J. W., Keller, C. U., Jones, H. P., & SOLIS Team, “Calibration and Data Analysis for the SOLIS-VSM”, 2003SPD...34.0303H ADS
- Gary, D. E. & Keller, C. U., “Site testing issues for the frequency agile solar radiotelescope (FASR)”, 2003SPIE.4853..523G ADS
- Keller, C. U., Plymate, C., & Ammons, S. M., “Low-cost solar adaptive optics in the infrared”, 2003SPIE.4853..351K ADS

- Keil, S. L., Rimmele, T., Keller, C. U., et al., "Design and development of the Advanced Technology Solar Telescope (ATST)", 2003SPIE.4853..240K ADS
- Keller, C. U., Harvey, J. W., & Giampapa, M. S., "SOLIS: an innovative suite of synoptic instruments", 2003SPIE.4853..194K ADS
- Strassmeier, K. G., Hofmann, A., Woche, M. F., et al., "PEPSI spectropolarimeter for the LBT", 2003SPIE.4843..180S ADS
- Keller, C. U., "Solar polarimetry close to the diffraction limit", 2003SPIE.4843..100K ADS
- Rimmele, T. R., Keil, S. L., Keller, C. U., et al., "Technical challenges of the Advanced Technology Solar Telescope", 2003SPIE.4837..094R ADS
- Fleck, B. & Keller, C. U., "Solar observing facilities", in B. N. Dwivedi and F. b. E. N. Parker (Eds.), Dynamic Sun, 403-433 2003dysu.book..403F ADS
- Keller, C. U., Harvey, J. W., Henney, C. J., & Jones, H. P., "Helicity and the SOLIS Vector-Spectromagnetograph", 2003IAUJD...3E..18K ADS
- Keller, C. U., "Polarimetry with the Advanced Technology Solar Telescope", 2003ASPC..307...23K ADS
- Keller, C. U., Harvey, J. W., & Solis Team, "The SOLIS Vector-Spectromagnetograph", 2003ASPC..307...13K ADS
- Keller, C. U., "Polarimetry with the ATST (Invited review)", 2003ASPC..286...31K ADS
- Rimmele, T., Keil, S. L., Keller, C., et al., "Science Objectives and Technical Challenges of the Advanced Technology Solar Telescope (Invited review)", 2003ASPC..286...3R ADS
- Keil, S., Rimmele, T., Keller, C., & ATST Team, "Design and development of the Advanced Technology Solar Telescope", 2003AN...324..303K ADS
- Jones, H. P., Harvey, J. W., Henney, C. J., Hill, F., & Keller, C. U., "Data analysis for the SOLIS Vector Spectromagnetograph", 2002ESASP.505...15J ADS
- Judge, P. G., Tomczyk, S., Livingston, W. C., Keller, C. U., & Penn, M. J., "Spectroscopic Detection of the 3.934 Micron Line of Si IX in the Solar Corona", 2002ApJ...576L.157J ADS
- Keller, C. U., Rimmele, T. R., Hill, F., et al., "The Advanced Technology Solar Telescope", 2002AN...323..294K ADS
- Stenflo, J. O., Gandorfer, A., Holzreuter, R., et al., "Spatial mapping of the Hanle and Zeeman effects on the Sun", 2002A&A...389..314S ADS
- Keller, C. U., Stein, R. F., & Nordlund, A., "Observational Signatures of a Solar Small-Scale Global Dynamo", 2002AAS...200.8908K ADS
- Ammons, S. M. & Keller, C. U., "Preliminary tests of a low-cost solar infrared adaptive optics system", 2002AAS...200.5610A ADS
- Henney, C. J., Keller, C. U., Jones, H. P., & SOLIS Team, "Stokes Inversion Techniques for the SOLIS-VSM", 2002AAS...200.5514H ADS
- Rimmele, T. R., Keil, S. L., Keller, C. U., et al., "The Advanced Technology Solar Telescope", 2002AAS...200.3408R ADS
- Keller, C., "1000 years of climate change", 2002cosp...34E1791K ADS
- Cravens, T., Vann, J., Clark, J., Yu, J., & Keller, C., "The ionosphere of Titan", 2002cosp...34E.399C ADS
- Keller, C. U., "Instrumentation for astrophysical spectropolarimetry", 2002apsp.conf..303K ADS
- Pifer, R. & Keller, C., "Polarization Modulation for Solar Vector-Polarimeters using Ferroelectric Liquid Crystals", 2001AGUSM..SP51B05P ADS
- Rimmele, T. R., Keil, S. L., Keller, C. U., & Hill, F., "The Advanced Technology Solar Telescope - Science Goals and Instrument Description.", 2001AGUSM..SH31D08R ADS
- Stenflo, J. O., Gandorfer, A., Wenzler, T., & Keller, C. U., "Influence of magnetic fields on the coherence effects in the Na I D₁ and D₂ lines", 2001A&A...367.1033S ADS
- Keller, C. U., "Solar Chromospheric Magnetic Fields", 2001ASPC..248...61K ADS
- Keil, S. L., Rimmele, T. R., Keller, C. U., & Atst Team, "The Advanced Technology Solar Telescope", 2001ASPC..236..597K ADS
- Keller, C. U., "High Resolution Polarimetry and the Need for a Large-Aperture Solar Telescope", 2001ASPC..236..389K ADS
- Keller, C. U. & Solis Team, "The SOLIS Vector-Spectromagnetograph (VSM)", 2001ASPC..236...16K ADS
- Rimmele, T., Keller, C., Keil, S., Hill, F., & Atst Team, "The Advanced Technology Solar Telescope: Science Goals and Instrument Description", 2001AGM...18S1006R ADS
- Keil, S. L., Rimmele, T. R., Keller, C., & Hill, F., "The Advanced Solar Telescope", 2000AAS...197.1710K ADS
- Sivaraman, K. R., Gupta, S. S., Livingston, W. C., et al., "Results from a revisit to the K₂V bright points", 2000A&A...363..279S ADS
- Keller, C. U., "New Initiatives for Synoptic Observations", 2000JApA...21..127K ADS
- Rust, D. M., Bernasconi, P. N., Eaton, H. A., et al., "New Results from the Flare Genesis Experiment", 2000SPD...31.0302R ADS
- Keller, C. U., Rimmele, T. R., Paxman, R. G., et al., "Evolution of small-scale magnetic fields from combined adaptive optics and phase-diverse speckle imaging", 2000SPD...31.0301K ADS
- Stenflo, J. O., Keller, C. U., & Gandorfer, A., "Anomalous polarization effects due to coherent scattering on the Sun", 2000A&A...355..789S ADS
- Stenflo, J. O., Gandorfer, A., & Keller, C. U., "Center-to-limb variation of the enigmatic Na I D₁ and D₂ polarization profiles", 2000A&A...355..781S ADS
- Keller, C. U., "5,000 by 5,000 Spatial by 15,000 Spectral Resolution Elements: First Astronomical Observations with a Novel 3-D Detector", 2000ASPC..195..495K ADS
- Seldin, J. H., Paxman, R. G., Carrara, D. A., Keller, C. U., & Rimmele, T. R., "Deconvolution of narrowband solar images using aberrations estimated from phase-diverse imagery", 1999SPIE.3815..155S ADS
- Rüedi, I., Solanki, S. K., & Keller, C. U., "Infrared lines as probes of solar magnetic features. XV. Evershed flow in cool, weak penumbral fields", 1999A&A...348L..37R ADS
- Keller, C. U. & Sheeley, N. R., Jr., "Scattering polarization in the chromosphere", 1999ASSL..243...17K ADS
- Keller, C., "Optimum Apodization for Speckle Imaging of Extended Sources", 1999ASPC..183..342K ADS
- Paxman, R., Seldin, J., & Keller, C., "Phase-Diversity Data Sets and Processing Strategies", 1999ASPC..183..311P ADS
- Keller, C., "The Advanced Solar Telescope: I. Science Goals", 1999ASPC..183..169K ADS
- Duschl, W. J., Gail, H. P., Keller, C., & Tscharnuter, W. M., "Evolution of Protoplanetary Accretion Disks including Chemistry and Transport Processes", 1999AGAb...15...22D ADS
- Rüedi, I., Solanki, S. K., Keller, C. U., & Frutiger, C., "Infrared lines as probes of solar magnetic features. XIV. Ti I and the cool components of sunspots", 1998A&A...338.1089R ADS
- Keller, C. U., "SOLIS: a modern facility for synoptic solar observations", 1998SPIE.3352..732K ADS
- Keller, C. U.: 1998b, SOLIS: A Modern Facility for Synoptic Solar Observations, Technical Report, Conference 3352: Astronomical Telescopes and Instrumentation 1998STIN...9946076K ADS
- Keller, C. U., Harvey, J. W., Barden, S. C., et al., "Asteroseismology from equivalent widths: a test of the sun", 1998IAUS...185..375K ADS
- Pilachowski, C. A., Barden, S., Hill, F., et al., "The Procyon campaign: Observations from Kitt Peak", 1998IAUS...185..319P ADS
- Keller, C. U. & Nso Staff, "SOLIS - A Modern Facility for Synoptic Solar Observations", 1998ASPC..154..636K ADS
- Keller, C. U. & NSO Staff, "SOLIS Instrumentation Aspects", 1998ASPC..140..539K ADS
- Neidig, D., Wiborg, P., Confer, M., et al., "The USAF Improved Solar Observing Optical Network (ISOON) and its Impact on Solar Synoptic Data Bases", 1998ASPC..140..519N ADS
- Fiebig, D., Els, S. G., & Keller, C., "Population number inversion in disk-impinging-clumps", 1998AGAb...14...22F ADS
- Bernasconi, P. N., Keller, C. U., Solanki, S. K., & Stenflo, J. O., "Complex magnetic fields in an active region", 1998A&A...329..704B ADS
- Stenflo, J. O., Keller, C. U., & Gandorfer, A., "Differential Hanle effect and the spatial variation of turbulent magnetic fields on the Sun", 1998A&A...329..319S ADS
- Stenflo, J. O., Bianda, M., Keller, C. U., & Solanki, S. K., "Center-to-limb variation of the second solar spectrum.", 1997A&A...322..985S ADS
- Keller, C., Bastian, T., Benz, A., & Krucker, S., "Chromospheric Events in the Quiet Network", 1997SPD...28.1304K ADS
- Neidig, D., Confer, M., Wiborg, P., et al., "ISOON: The Improved Solar Observing Optical Network", 1997SPD...28.0224N ADS
- Stenflo, J. O. & Keller, C. U., "The second solar spectrum. A new window for diagnostics of the Sun.", 1997A&A...321..927S ADS
- Seldin, J. H., Paxman, R. G., & Keller, C. U., "Time series restoration from ground-based solar observations", 1996SPIE.2804..166S ADS
- Murphy, G. A., Rust, D. M., Strohbehn, K., et al., "Flare Genesis Experiment", 1996SPIE.2804..141M ADS
- Keller, C. U. & Harvey, J. W., "Concept for a miniature solar magnetograph", 1996SPIE.2804...14K ADS
- Grossmann-Doerth, U., Keller, C. U., & Schüssler, M., "Observations of the quiet Sun's magnetic field.", 1996A&A...315..610G ADS
- Paxman, R. G., Seldin, J. H., Löfdahl, M. G., Scharmer, G. B., & Keller, C. U., "Evaluation of Phase-Diversity Techniques for Solar-Image Restoration", 1996ApJ...466.1087P ADS
- Keller, C. U. & Smartt, R. N., "Imaging Coronal Emission Lines under High Sky-Background Conditions", 1996SoPh..166..311K ADS
- Harvey, J. W., Pilachowski, C., Barden, S., et al., "Asteroseismology via equivalent widths - tests on Procyon, Eta Bootis, and Alpha Trianguli.", 1996BAAS...28..917H ADS

- Rabin, D., Keller, C., & Jaksha, D., "NIM-2 – A Near Infrared Imaging Vector Magnetograph", 1996AAS...188.6706R ADS
- Rust, D. M., Murphy, G. A., Strohhahn, K., Keil, S. L., & Keller, C. U., "The Flare Genesis Experiment", 1996AAS...188.6705R ADS
- Harvey, J., Keller, C., November, L., & NSO Staff, "SOLIS - A Modern Facility for Synoptic Solar Observations", 1996AAS...188.6703H ADS
- Harvey, J., Pilachowski, C., Barden, S., et al., "Asteroseismology via Equivalent Widths – Tests on Procyon, Eta Bootes, and Alpha Triangulum", 1996AAS...188.5903H ADS
- Keller, C. U. & Stenflo, J. O., "The Second Solar Spectrum", 1996AAS...188.5704K ADS
- Rust, D. M., Murphy, G., Strohhahn, K., & Keller, C. U., "Balloon-Borne Polarimetry", 1996SoPh...164..403R ADS
- Rüedi, I., Keller, C. U., & Solanki, S. K., "Measurement of the full Stokes vector of He I 10830 Å", 1996SoPh...164..265R ADS
- Keller, C. U., "Recent Progress in Imaging Polarimetry", 1996SoPh...164..243K ADS
- Bernasconi, P. N., Keller, C. U., Povel, H. P., & Stenflo, J. O., "Direct measurements of flux tube inclinations in solar plages.", 1995A&A...302..533B ADS
- Graff, W., Rosselet, A. C., Wild, U. P., Gschwind, R., & Keller, C. U., "Handling of huge multispectral image data volumes from a spectral hole burning device (SHBD)", 1995SPIE.2480..445G ADS
- Keller, C. U. & Johannesson, A., "Speckle spectrography of extended objects.", 1995A&AS...110..565K ADS
- Keller, C. U. & Harvey, J. W., "Weak Magnetic Fields in the Network", 1995SPD...26..206K ADS
- Keller, C. U., Gschwind, R., Renn, A., Rosselet, A., & Wild, U. P., "The spectral hole-burning device: a 3-dimensional photon detector.", 1995A&AS...109..383K ADS
- Keller, C. U., Bernasconi, P. N., Egger, U., et al.: 1995b, *Visible and Near Infrared Polarimetry with lest*, LEST FOUNDATION TECHNICAL REPORT NO. 59, 1995 1995lest.rept....1K ADS
- Collados, M., Keller, C. U., & Steiner, P.: 1995, *Lest Detector and Data Acquisition System - Part One - Specifications*, LEST FOUNDATION TECHNICAL REPORT NO. 61, 1995 1995lest.rept....1C ADS
- Keller, C. U., "Infrared Capabilities of the Large Earth-Based Solar Telescope (LEST)", 1995itsa.conf..215K ADS
- Collados, M., Keller, C. U., & Steiner, P., "LEST detector and data acquisition systems.", 1995LFTR...61....C ADS
- Keller, C. U., Bernasconi, P. N., Egger, U., et al., "Visible and near-infrared polarimetry with LEST", 1995LFTR...59....K ADS
- Keller, C. U., Graff, W., Rosselet, A., Gschwind, R., & Wild, U. P., "First light for an astronomical 3-D photon detector.", 1994A&A...289L..41K ADS
- Povel, H. P., Keller, C. U., & Yadigaroglu, I. A., "Two-dimensional polarimeter with a charge-coupled-device image sensor and a piezoelectric modulator", 1994ApOpt...33.4254P ADS
- Christou, J. C., Hege, E. K., Jefferies, S. M., & Keller, C. U., "Application of multiframe iterative blind deconvolution for diverse astronomical imaging", 1994SPIE.2200..433C ADS
- Keller, C. U., Deubner, F. L., Egger, U., Fleck, B., & Povel, H. P., "On the strength of solar intra-network fields.", 1994A&A...286..626K ADS
- Keller, C. U., "High spatial resolution observations of solar magnetic fields", 1994smf...conf..325K ADS
- Bernasconi, P. N., Keller, C. U., & Stenflo, J. O., "Direct Measurements of Fluxtube Inclinations in Plages", 1994ASPC...68..131B ADS
- Keller, C. U., "Speckle techniques for spectroscopic observations", 1994ASIC..433..43K ADS
- Keller, C. U., "Some aspects of polarimetry with LEST", 1994ASIC..433..37K ADS
- Keller, C. & von der Lühse, O., "Narrow-Band Speckle Imaging", 1993rtpf.conf..129K ADS
- Keller, C., "Small-Scale Structure in Active Regions (Invited)", 1993ASPC...46...3K ADS
- Keller, C. U., "Resolution of magnetic flux tubes on the Sun", 1992Natur.359..307K ADS
- Keller, C. U. & von der Lühse, O., "Solar speckle polarimetry", 1992A&A...261..321K ADS
- Keller, C. U. & von der Lühse, O., "Application of Differential Speckle Imaging to Solar Polarimetry", 1992ESOC...39..453K ADS
- Keller, C. U., Stenflo, J. O., & von der Lühse, O., "High Spatial Resolution Magnetograms of Solar Active Regions", 1992A&A...254..355K ADS
- Darvann, T. A. & Keller, C. U.: 1992, *Round table discussion*, LEST Mini-Workshop on Software for Solar Image Processing, p. 131 1992lest.rept..131D ADS
- Keller, C. U.: 1992, *GAP: yet another image processing system for solar observations*, LEST Mini-Workshop on Software for Solar Image Processing, p. 3 - 17 1992lest.rept....3K ADS
- Keller, C. U., Aebbersold, F., Egger, U., et al.: 1992, *Zurich Imaging Stokes Polarimeter Zimpol-I - Design Review*, LEST FOUNDATION TECHNICAL REPORT NO. 53, 1992 1992lest.rept....1K ADS
- Keller, C. U.: 1992, "High resolution observation of solar magnetic fields", *Ph.D. thesis*, Eidgenössische Technische Hochschule, Zurich, Switzerland 1992PhDT.....203K ADS
- Stenflo, J. O., Keller, C. U., & Povel, H. P., "Demodulation of all four Stokes parameters with a single CCD - ZIMPOL II. Conceptual design.", 1992LFTR...54....S ADS
- Keller, C. U., Aebbersold, F., Egger, U., et al., "Zürich Imaging Stokes Polarimeter - ZIMPOL I. Design review.", 1992LFTR...53....K ADS
- Keller, C. U. & Koutchmy, S., "Multicolor Continuum Analysis of the Solar Granulation in Quiet and Active Regions", 1991ApJ...379..751K ADS
- Frank, Z. A., Scharmer, G. B., Keller, C., & Lundstedt, H., "Fine-Scale Magnetic Field in a Sunspot Penumbra and Adjacent Photosphere", 1991BAAS...23.1052F ADS
- Keller, C. U., Solanki, S. K., Stenflo, J. O., & Zayer, I., "Inversion of Stokes V profiles: The structure of solar magnetic fluxtubes and its dependence on the filling factor.", 1991sopo.work..387K ADS
- Keller, C. U., "High spatial resolution polarimetry using filtergrams.", 1991sopo.work..124K ADS
- Povel, H. P., Keller, C. U., & Stenflo, J. O., "Two-dimensional polarimeter with CCD image sensors and piezo-elastic modulators.", 1991sopo.work..100P ADS
- Zayer, I., Stenflo, J. O., Keller, C. U., & Solanki, S. K., "Dependence of the properties of solar magnetic flux tubes on filling factor. II - Results of an inversion approach", 1990A&A...239..356Z ADS
- Keller, C. U., Stenflo, J. O., Solanki, S. K., Tarbell, T. D., & Title, A. M., "Solar magnetic field strength determinations from high spatial resolution filtergrams", 1990A&A...236..250K ADS
- Keller, C. U., Steiner, O., Stenflo, J. O., & Solanki, S. K., "Structure of solar magnetic fluxtubes from the inversion of Stokes spectra at disk center", 1990A&A...233..583K ADS
- Keller, C. U., "Empirical Photospheric Fluxtube Models from Inversion of Stokes V Data", 1990IAUS...138..121K ADS
- Keller, C. U. & Koutchmy, S., "High resolution photographic Stokes polarimetry of small scale magnetic flux (poster)", 1989hsrs.conf..443K ADS
- Keller, C. U., "Restoration of distorted images as a variational problem: a dynamic programming approach", 1989hsrs.conf..208K ADS
- Solanki, S. K., Keller, C., & Stenflo, J. O., "Properties of solar magnetic fluxtubes from only two spectral lines", 1987A&A...188..183S ADS
- Nielsen, A. V., Milet, B., Pereyra, Z. M., et al., "Comet Rudnicki (1966e)", 1967IAUC.1987....2N ADS