

Bibliography from ADS file: beck.bib
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- Prasad, A., Ranganathan, M., Beck, C., Choudhary, D. P., & Hu, Q., “The magnetic topology of the inverse Evershed flow”, 2022A&A...662A...25P ADS
- de Wijn, A. G., Casini, R., Carlile, A., et al., “The Visible Spectro-Polarimeter of the Daniel K. Inouye Solar Telescope”, 2022SoPh...297...22D ADS
- Wang, S., Jenkins, J. M., Muglach, K., et al., “Velocities of an Erupting Filament”, 2022ApJ...926...18W ADS
- Choudhary, D. P., Louis, R., Prasad, A., Beck, C., & Yalim, M., “Heating of the solar atmosphere by electric currents”, 2021AGUFM12B...07C ADS
- Louis, R. E., Prasad, A., Beck, C., Choudhary, D. P., & Yalim, M. S., “Heating of the solar chromosphere in a sunspot light bridge by electric currents”, 2021A&A...652L...4L ADS
- Choudhary, D. P., Beck, C., Prasad, A., Monankrishna, R., & Dhara, S., “Spectropolarimetric Measurements Of The Inverse Evershed Flow”, 2021AAS...23831319C ADS
- Rimmele, T., Woeger, F., Tritschler, A., et al., “The National Science Foundation’s Daniel K. Inouye Solar Telescope - Status Update”, 2021AAS...23810601R ADS
- Gilchrist-Millar, C. A., Jess, D. B., Grant, S. D. T., et al., “Magnetoacoustic wave energy dissipation in the atmosphere of solar pores”, 2021RSPTA.37900172G ADS
- Rimmele, T. R., Warner, M., Keil, S. L., et al., “The Daniel K. Inouye Solar Telescope - Observatory Overview”, 2020SoPh...295...172R ADS
- Louis, R. E., Beck, C., & Choudhary, D. P., “The Formation of an Atypical Sunspot Light Bridge as a Result of Large-scale Flux Emergence”, 2020ApJ...905...153L ADS
- Beck, C., Choudhary, D. P., & Ranganathan, M., “Center-to-limb Variation of the Inverse Evershed Flow”, 2020ApJ...902...30B ADS
- Wang, S., Jenkins, J. M., Martínez Pillet, V., et al., “Magnetic Structure of an Erupting Filament”, 2020ApJ...892...75W ADS
- Beck, C. & Choudhary, D. P., “Temporal Evolution of the Inverse Evershed Flow”, 2020ApJ...891...119B ADS
- Choudhary, D. P. & Beck, C., “Time dependent properties of Inverse Evershed Flow and Perspectives with Daniel K. Inouye Solar Telescope (DKIST)”, 2019AGUFM14F3334C ADS
- Wang, S., Jenkins, J. M., Pillet, V. M., et al., “An Erupting Solar Filament Observed at the DST”, 2019AGUFM13B3376W ADS
- Romich, K., Cadavid, A. C., Choudhary, D. P., & Beck, C., “Stokes Line Parameters as Possible Indicators of Flaring Activity: A Comparison of Flaring and Non-Flaring Active Regions”, 2019AGUFM13D3338R ADS
- Beck, C., Gosain, S., & Kiessner, C., “Fast Inversion of Solar Ca II Spectra in Non-local Thermodynamic Equilibrium”, 2019ApJ...878...60B ADS
- Gusain, S. & Beck, C., “NLTE inversions of Ca II 854.2 nm spectra from SOLIS/VSM: Temperature diagnostics”, 2019AAS...23430203G ADS
- Wang, S., Jenkins, J., Pillet, V., et al., “Filament Magnetic Fields at the DST and DKIST”, 2019AAS...23422603W ADS
- Wang, S., Jenkins, J., Pillet, V., et al., “Magnetic Structures of a Quiescent Filament”, 2019shin.confE...52W ADS
- Beck, C., Fabbian, D., Rezaei, R., & Puschmann, K. G., “Magnetic Flux Density in 3D MHD Simulations and Observations”, 2019ASPC...526...191B ADS
- Beck, C. & Choudhary, D. P., “Magnetic Properties and Flow Angle of the Inverse Evershed Flow at Its Downflow Points”, 2019ApJ...874...6B ADS
- Ren, D., Zhao, G., Wang, X., Beck, C., & Broadfoot, R., “The First Solar Seeing Profile Measurement with Two Apertures and Multiple Guide Regions”, 2019SoPh...294...1R ADS
- Derks, A., Beck, C., & Martínez Pillet, V., “Inferring telescope polarization properties through spectral lines without linear polarization”, 2018A&A...615A...22D ADS
- Houston, S. J., Jess, D. B., Asensio Ramos, A., et al., “The Magnetic Response of the Solar Atmosphere to Umbral Flashes”, 2018ApJ...860...28H ADS
- Choudhary, D. P. & Beck, C., “Thermodynamic Properties of the Inverse Evershed Flow at Its Downflow Points”, 2018ApJ...859...139C ADS
- Rimmele, T. R., Martínez Pillet, V., Goode, P. R., et al., “Status of the Daniel K. Inouye Solar Telescope: unraveling the mysteries the Sun”, 2018AAS...23231601R ADS
- Derks, A., Beck, C., & Martínez Pillet, V., “Inferring Telescope Polarization Properties Through Spectral Lines Without Linear Polarization”, 2018tess.conf21060D ADS
- Grant, S. D. T., Jess, D. B., Zaqrashvili, T. V., et al., “Alfvén wave dissipation in the solar chromosphere”, 2018NatPh...14...480G ADS
- Beck, C., Rezaei, R., Choudhary, D. P., et al., “High-resolution Observations of H α Spectra with a Subtractive Double Pass”, 2018SoPh...293...36B ADS
- Beck, C., Fabbian, D., Rezaei, R., & Puschmann, K. G., “The Polarization Signature of Photospheric Magnetic Fields in 3D MHD Simulations and Observations at Disk Center”, 2017ApJ...842...37B ADS
- Guo, J., Ren, D.-Q., Liu, C.-C., et al., “Design and calibration of a high-sensitivity and high-accuracy polarimeter based on liquid crystal variable retarders”, 2017RAA...17...8G ADS
- Schmidt, C., Reardon, K., Killen, R. M., et al., “Absorption by Mercury’s Exosphere During the May 9th, 2016 Solar Transit”, 2016AGUFM.P53B2198S ADS
- Beck, C., Rezaei, R., Puschmann, K. G., & Fabbian, D., “Spectroscopy at the Solar Limb: II. Are Spicules Heated to Coronal Temperatures?”, 2016SoPh...291.2281B ADS
- Martínez González, M. J., Asensio Ramos, A., Arregui, I., et al., “On the Magnetism and Dynamics of Prominence Legs Hosting Tornadoes”, 2016ApJ...825...119M ADS
- Prasad Choudhary, D. & Beck, C., “Three-Dimensional Chromospheric Thermal Structure of Sunspots”, 2016SPD...47.0401P ADS
- Watson, F. T., Beck, C., Penn, M. J., et al., “Cross-Calibrating Sunspot Magnetic Field Strength Measurements from the McMath-Pierce Solar Telescope and the Dunn Solar Telescope”, 2015SoPh...290.3267W ADS
- Rezaei, R. & Beck, C., “Multiwavelength spectropolarimetric observations of an Ellerman bomb”, 2015A&A...582A.104R ADS
- Rezaei, R., Beck, C., Lagg, A., et al., “Variation in sunspot properties between 1999 and 2014”, 2015A&A...578A...43R ADS
- Prasad Choudhary, D., Beck, C., & Rezaei, R., “Three Dimensional Chromospheric Thermal Structure of Sunspot”, 2015TESS...131201P ADS
- Martínez González, M. J., Manso Sainz, R., Asensio Ramos, A., et al., “Spectropolarimetric Imaging Reveals Helical Magnetic Fields in Solar Prominence Feet”, 2015ApJ...802...3M ADS
- Beck, C., Choudhary, D. P., Rezaei, R., & Louis, R. E., “Fast Inversion of Solar Ca II Spectra”, 2015ApJ...798...100B ADS
- Ferguson, S. & Beck, C., “The relation between umbral magnetic field strength and area density of umbral dots”, 2015AAS...22513704F ADS
- Choudhary, D. P., Beck, C., & Rezaei, R., “Three Dimensional Chromospheric Temperature Structure of Sunspot”, 2014AGUFM14B4132C ADS
- Louis, R. E., Beck, C., Mathew, S. K., & Venkatarishnan, P., “Anomalous flows in a sunspot penumbra”, 2014A&A...570A...92L ADS
- Louis, R. E., Beck, C., & Ichimoto, K., “Small-scale chromospheric jets above a sunspot light bridge”, 2014A&A...567A...96L ADS
- Beck, C., Choudhary, D. P., & Rezaei, R., “A Three-dimensional View of the Thermal Structure in a Super-penumbra Canopy”, 2014ApJ...788...183B ADS
- Watson, F., Tritschler, A., Penn, M. J., et al., “A Spectro-polarimetric Analysis of Sunspot Umbrae”, 2014AAS...22411202W ADS
- Balthasar, H., Beck, C., Louis, R. E., Verma, M., & Denker, C., “Near-infrared spectropolarimetry of a δ -spot”, 2014A&A...562L...6B ADS
- Beck, C., Fabbian, D., Moreno-Insertis, F., Puschmann, K. G., & Rezaei, R.: 2013a, Thermodynamic fluctuations in solar photospheric three-dimensional convection simulations and observations (Corrigendum), Astronomy & Astrophysics, Volume 559, id.C1, 1 pp. 2013A&A...559C...1B ADS
- Beck, C., Fabbian, D., Moreno-Insertis, F., Puschmann, K. G., & Rezaei, R., “Thermodynamic fluctuations in solar photospheric three-dimensional convection simulations and observations”, 2013A&A...557A.109B ADS
- Puschmann, K. G., Denker, C., Balthasar, H., et al., “GREGOR Fabry-Pérot interferometer and its companion the blue imaging solar spectrometer”, 2013OptEn...52h1606P ADS
- Beck, C., Rezaei, R., & Puschmann, K. G., “Can spicules be detected at disc centre in broad-band Ca II H filter imaging data?”, 2013A&A...556A.127B ADS
- Daw, A. N., Rabin, D. M., Brosius, J. W., et al., “First Results from the EUNIS 2013 Sounding Rocket Campaign”, 2013SPD...4410501D ADS
- Beck, C., Rezaei, R., & Puschmann, K. G., “The energy of waves in the photosphere and lower chromosphere. IV. Inversion results of Ca II H spectra”, 2013A&A...553A...73B ADS
- Louis, R. E., Mathew, S. K., Puschmann, K. G., Beck, C., & Balthasar, H., “Formation of a penumbra in a decaying sunspot”, 2013A&A...552L...7L ADS
- Beck, C., Rezaei, R., & Puschmann, K. G., “The energy of waves in the photosphere and lower chromosphere. III. Inversion setup for Ca II H spectra in local thermal equilibrium”, 2013A&A...549A...24B ADS
- Puschmann, K. G., Denker, C., Kneer, F., et al., “The GREGOR Fabry-Pérot Interferometer”, 2012AN...333...880P ADS
- Puschmann, K. G., Balthasar, H., Beck, C., et al., “The GREGOR Fabry-Perot interferometer: status report and prospects”, 2012SPIE.8446E...79P ADS
- Beck, C., Rezaei, R., & Puschmann, K. G., “The energy of waves in the photosphere and lower chromosphere. II. Intensity statistics”, 2012A&A...544A...46B ADS

- Rezaei, R., Beck, C., & Schmidt, W., "Variation in sunspot properties between 1999 and 2011 as observed with the Tenerife Infrared Polarimeter", 2012A&A...541A..60R [ADS](#)
- Bethge, C., Beck, C., Peter, H., & Lagg, A., "Siphon flow in a cool magnetic loop", 2012A&A...537A.130B [ADS](#)
- Beck, C., Rezaei, R., & Fabbian, D., "Stray-light contamination and spatial deconvolution of slit-spectrograph observations", 2011A&A...535A.129B [ADS](#)
- Bethge, C., Peter, H., Kentischer, T. J., et al., "The Chromospheric Telescope", 2011A&A...534A.105B [ADS](#)
- Beck, C. A. R. & Rezaei, R., "Spectroscopy at the solar limb. I. Average off-limb profiles and Doppler shifts of Ca II H", 2011A&A...531A.173B [ADS](#)
- Beck, C., Bellot Rubio, L. R., Kentischer, T. J., Tritschler, A., & Del Toro Iniesta, J. C., "Two-dimensional solar spectropolarimetry with the KIS/IAA Visible Imaging Polarimeter", 2010A&A...520A.115B [ADS](#)
- Beck, C., Tritschler, A., & Wöger, F., "A chromospheric dark-cored fibril in Ca II IR spectra", 2010AN...331..574B [ADS](#)
- Gömöry, P., Beck, C., Balthasar, H., et al., "Magnetic loop emergence within a granule", 2010A&A...511A..14G [ADS](#)
- Beck, C. A. R. & Rammacher, W., "Linear wavelength correlation matrices of photospheric and chromospheric spectral lines. I. Observations vs. modeling", 2010A&A...510A..66B [ADS](#)
- Beck, C., Khomenko, E., Rezaei, R., & Collados, M., "The energy of waves in the photosphere and lower chromosphere. I. Velocity statistics", 2009A&A...507..453B [ADS](#)
- Beck, C. & Rezaei, R., "The magnetic flux of the quiet Sun internetwork as observed with the Tenerife infrared polarimeter", 2009A&A...502..969B [ADS](#)
- Rezaei, R., Bruls, J. H. M. J., Schmidt, W., et al., "Reversal-free Ca II H profiles: a challenge for solar chromosphere modeling in quiet inter-network", 2008A&A...484..503R [ADS](#)
- Beck, C., "A 3D sunspot model derived from an inversion of spectropolarimetric observations and its implications for the penumbral heating", 2008A&A...480..825B [ADS](#)
- Beck, C., Schmidt, W., Rezaei, R., & Rammacher, W., "The signature of chromospheric heating in Ca II H spectra", 2008A&A...479..213B [ADS](#)
- Beck, C., Bellot Rubio, L. R., Schlichenmaier, R., & Sütterlin, P., "Magnetic properties of G-band bright points in a sunspot moat", 2007A&A...472..607B [ADS](#)
- Rezaei, R., Schlichenmaier, R., Beck, C. A. R., Bruls, J. H. M. J., & Schmidt, W., "Relation between photospheric magnetic field and chromospheric emission", 2007A&A...466.1131R [ADS](#)
- Müller, D. A. N., Schlichenmaier, R., Fritz, G., & Beck, C., "The multi-component field topology of sunspot penumbrae. A diagnostic tool for spectropolarimetric measurements", 2006A&A...460..925M [ADS](#)
- Cabrera Solana, D., Bellot Rubio, L. R., Beck, C., & del Toro Iniesta, J. C., "Evershed Clouds as Precursors of Moving Magnetic Features around Sunspots", 2006ApJ...649L..41C [ADS](#)
- Mikurda, K. & Beck, C., "Observational Evidence for the 'Hot Wall' Effect in Small Magnetic Flux Concentrations", 2006IAUJD...3E..91M [ADS](#)
- Bellot Rubio, L. R., Tritschler, A., Kentischer, T., Beck, C., & Del Toro Iniesta, J. C., "VIP - 2D Vector Spectropolarimetry of the Solar Atmosphere near the Diffraction Limit", 2006IAUJD...3E..58B [ADS](#)
- Rezaei, R., Schlichenmaier, R., Beck, C., & Bellot Rubio, L. R., "The flow field in the sunspot canopy", 2006A&A...454..975R [ADS](#)
- Beck, C.: 2006, "The 3-D topology of magnetic fields in and around sunspots", Ph.D. thesis, Albert Ludwigs University of Freiburg, Germany 2006PhDT.....30B [ADS](#)
- Beck, C., Schlichenmaier, R., Collados, M., Bellot Rubio, L., & Kentischer, T., "A polarization model for the German Vacuum Tower Telescope from in situ and laboratory measurements", 2005A&A...443.1047B [ADS](#)
- Beck, C., Schmidt, W., Kentischer, T., & Elmore, D., "Polarimetric Littrow Spectrograph - instrument calibration and first measurements", 2005A&A...437.1159B [ADS](#)
- Bellot Rubio, L. R. & Beck, C., "Magnetic Flux Cancellation in the Moat of Sunspots: Results from Simultaneous Vector Spectropolarimetry in the Visible and the Infrared", 2005ApJ...626L.125B [ADS](#)
- Khomenko, E. V., Martínez González, M. J., Collados, M., et al., "Magnetic flux in the internetwork quiet Sun", 2005A&A...436L..27K [ADS](#)
- Schmidt, W., Beck, C., Kentischer, T., Elmore, D., & Lites, B., "POLIS: A spectropolarimeter for the VTT and for GREGOR", 2003AN...324..300S [ADS](#)