

Bibliography from ADS file: loefdahl.bib

September 14, 2022

- Quintero Noda, C., Schlichenmaier, R., Bellot Rubio, L. R., et al., "The European Solar Telescope", 2022arXiv220710905Q [ADS](#)
- Löfdahl, M. G. & Hillberg, T., "Multi-frame blind deconvolution and phase diversity with statistical inclusion of uncorrected high-order modes", 2022arXiv220513650L [ADS](#)
- Löfdahl, M. G., Hillberg, T., de la Cruz Rodríguez, J., et al., "SSTRED: Data- and metadata-processing pipeline for CHROMIS and CRISP", 2021A&A...653A..68L [ADS](#)
- Scharmer, G. B., Löfdahl, M. G., Sliemen, G., & de la Cruz Rodríguez, J., "Is the sky the limit? Performance of the revamped Swedish 1-m Solar Telescope and its blue- and red-beam reimaging systems", 2019A&A...626A..55S [ADS](#)
- Kuridze, D., Mathioudakis, M., Morgan, H., et al., "Mapping the Magnetic Field of Flare Coronal Loops", 2019ApJ...874..126K [ADS](#)
- de la Cruz Rodríguez, J., Löfdahl, M. G., Süttlerlin, P., Hillberg, T., & Rouppe van der Voort, L.: 2017, CRISPRED: CRISP imaging spectropolarimeter data reduction pipeline, Astrophysics Source Code Library, record ascl:1708.003 2017ascl.soft08003D [ADS](#)
- Löfdahl, M., "A Comparison of Solar Image Restoration Techniques for SST/CRISP Data (Summary)", 2016ASPC..504..111L [ADS](#)
- Löfdahl, M. G., "Off-disk straylight measurements for the Swedish 1-m Solar Telescope", 2016A&A...585A.140L [ADS](#)
- de la Cruz Rodríguez, J., Löfdahl, M. G., Süttlerlin, P., Hillberg, T., & Rouppe van der Voort, L., "CRISPRED: A data pipeline for the CRISP imaging spectropolarimeter", 2015A&A...573A..40D [ADS](#)
- Löfdahl, M., "Restoration of the contrast in solar images", 2012IAUSS...6E.305L [ADS](#)
- Löfdahl, M. G. & Scharmer, G. B., "Sources of straylight in the post-focus imaging instrumentation of the Swedish 1-m Solar Telescope", 2012A&A...537A..80L [ADS](#)
- Löfdahl, M. G., Henriques, V. M. J., & Kiselman, D., "A tilted interference filter in a converging beam", 2011A&A...533A..82L [ADS](#)
- Löfdahl, M. G., "Evaluation of image-shift measurement algorithms for solar Shack-Hartmann wavefront sensors", 2010A&A...524A..90L [ADS](#)
- Spruit, H. C., Scharmer, G. B., & Löfdahl, M. G., "Striation and convection in penumbral filaments", 2010A&A...521A..72S [ADS](#)
- Scharmer, G. B., Löfdahl, M. G., van Werkhoven, T. I. M., & de la Cruz Rodríguez, J., "High-order aberration compensation with multi-frame blind deconvolution and phase diversity image restoration techniques", 2010A&A...521A..68S [ADS](#)
- Berkerefeld, T., Soltau, D., del Moro, D., & Löfdahl, M., "Wavefront sensing and wavefront reconstruction for the 4m European Solar Telescope EST", 2010SPIE.7736E..2JB [ADS](#)
- Soltau, D., Berkerefeld, T., Sánchez Capuchino, J., et al., "Adaptive optics and MCAO for the 4-m European Solar Telescope EST", 2010SPIE.7736E..00S [ADS](#)
- Scharmer, G. B., Narayan, G., Hillberg, T., et al., "CRISP Spectropolarimetric Imaging of Penumbral Fine Structure", 2008ApJ...689L..69S [ADS](#)
- Narayan, G., Scharmer, G. B., Hillberg, T., et al., "SST/CRISP Magnetometry with Fe I 630.2 nm", 2008ESPM..122.120N [ADS](#)
- Scharmer, G., Henriques, V., Hillberg, T., et al., "Spectropolarimetry of Sunspots at 0.16 ARSEC resolution", 2008ESPM..12..2.5S [ADS](#)
- Berger, T. E., Title, A. M., Tarbell, T., et al., "What are 'Faculae'?", 2007ASPC..369..103B [ADS](#)
- Scharmer, G. B., Langhans, K., Kiselman, D., & Löfdahl, M. G., "Recent High Resolution Observations and Interpretations of Sunspot Fine Structure", 2007ASPC..369..71S [ADS](#)
- Berger, T. E., Rouppe van der Voort, L., & Löfdahl, M., "Contrast Analysis of Solar Faculae and Magnetic Bright Points", 2007ApJ...661.1272B [ADS](#)
- Langhans, K., Scharmer, G. B., Kiselman, D., & Löfdahl, M. G., "Observations of dark-cored filaments in sunspot penumbrae", 2007A&A...464..763L [ADS](#)
- Löfdahl, M. G., van Noort, M. J., & Denker, C., "Solar image restoration", 2007msfa.conf..119L [ADS](#)
- Zakharov, V., Gandorfer, A., Solanki, S. K., & Löfdahl, M.: 2007, A comparative study of the contrast of solar magnetic elements in CN and CH, Astronomy and Astrophysics, Volume 461, Issue 2, January II 2007, pp.695-695 2007A&A..461..695Z [ADS](#)
- van Noort, M., Rouppe van der Voort, L., & Löfdahl, M., "Solar Image Restoration by use of Multi-Object Multi-Frame Blind Deconvolution", 2006ASPC..354..55V [ADS](#)
- De Pontieu, B., Carlsson, M., Stein, R., et al., "Rapid Temporal Variability of Faculae: High-Resolution Observations and Modeling", 2006ApJ...646.1405D [ADS](#)
- Zakharov, V., Gandorfer, A., Solanki, S. K., & Löfdahl, M., "A comparative study of the contrast of solar magnetic elements in CN and CH", 2005A&A...437L..43Z [ADS](#)
- Langhans, K., Scharmer, G. B., Kiselman, D., Löfdahl, M. G., & Berger, T. E., "Inclination of magnetic fields and flows in sunspot penumbrae", 2005A&A...436.1087L [ADS](#)
- Van Noort, M., Der Voort, L. R. V., & Löfdahl, M. G., "Solar Image Restoration By Use Of Multi-frame Blind De-convolution With Multiple Objects And Phase Diversity", 2005SoPh..228..191V [ADS](#)
- Berger, T. E., Rouppe van der Voort, L., & Lofdahl, M. G., "High resolution magnetogram measurements of solar faculae", 2005AGUSMSP31A..02B [ADS](#)
- Berger, T. E., Rouppe van der Voort, L. H. M., Löfdahl, M. G., et al., "Solar magnetic elements at 0.1 arcsec resolution. General appearance and magnetic structure", 2004A&A...428..613B [ADS](#)
- Wang, H., Qu, M., Shih, F., et al., "Innovative Information Technology for Space Weather Research", 2004AAS...204.5209W [ADS](#)
- Berger, T. E., Rouppe van der Voort, L. H. M., Lofdahl, M. G., et al., "Observations of solar magnetic elements with 0.1" resolution", 2004AAS...204.2005B [ADS](#)
- Rouppe van der Voort, L. H. M., Löfdahl, M. G., Kiselman, D., & Scharmer, G. B., "Penumbral structure at 0.1 arcsec resolution. I. General appearance and power spectra", 2004A&A...414..717R [ADS](#)
- de Pontieu, B., Erdelyi, R., de Wijn, A., & Löfdahl, M., "Intensity Oscillations in the upper transition region above active region plage", 2003AGUFMSH42B0540D [ADS](#)
- Berger, T. E., Löfdahl, M. G., Scharmer, G., & Title, A. M., "Observations of magnetoconvection in Sunspots with 100 km resolution", 2003SPD...34.1108B [ADS](#)
- Löfdahl, M. G. & Scharmer, G. B., "Phase diverse speckle inversion applied to data from the Swedish 1-meter solar telescope", 2003SPIE.4853..567L [ADS](#)
- Scharmer, G. B., Dettori, P. M., Lofdahl, M. G., & Shand, M., "Adaptive optics system for the new Swedish solar telescope", 2003SPIE.4853..370S [ADS](#)
- Scharmer, G. B., Kiselman, D., Löfdahl, M. G., & Rouppe van der Voort, L. H. M., "First Results from the Swedish 1-m Solar Telescope", 2003ASPC..307...3S [ADS](#)
- Löfdahl, M. G., "Multi-frame blind deconvolution with linear equality constraints", 2002SPIE.4792..146L [ADS](#)
- Scharmer, G. B., Gudiksen, B. V., Kiselman, D., Löfdahl, M. G., & Rouppe van der Voort, L. H. M., "Dark cores in sunspot penumbral filaments", 2002Natur.420..151S [ADS](#)
- Berger, T. E., Löfdahl, M. G., & Bercik, D. J., "Observation and Modelling of Micropore Formation in Active Network Regions", 2002AAS...200.9101B [ADS](#)
- Löfdahl, M. G., Berger, T. E., & Seldin, J. H., "Two dual-wavelength sequences of high-resolution solar photospheric images captured over several hours and restored by use of phase diversity", 2001A&A...377.1128L [ADS](#)
- Lofdahl, M. G. & Eriksson, H., "Resolving piston ambiguities when phasing a segmented mirror", 2000SPIE.4013..774L [ADS](#)
- Lofdahl, M. G. & Scharmer, G. B., "Predictor approach to closed-loop phase-diversity wavefront sensing", 2000SPIE.4013..737L [ADS](#)
- Scharmer, G. B., Shand, M., Lofdahl, M. G., Dettori, P. M., & Wei, W., "Workstation-based solar/stellar adaptive optics system", 2000SPIE.4007..239S [ADS](#)
- Löfdahl, M. G., Scharmer, G. B., & Wei, W., "Calibration of a Deformable Mirror and Strehl Ratio Measurements by Use of Phase Diversity", 2000ApOpt..39..94L [ADS](#)
- Kendrick, R. L., Bell, R., Benson, L., et al., "Experimental results from a multiple telescope imaging array", 1999aero...5..415K [ADS](#)
- Zarifis, V., Bell, R. M. J., Benson, L. R., et al., "The Multi Aperture Imaging Array", 1999ASPC..194..278Z [ADS](#)
- Löfdahl, M., "Orthogonalization of Basis Functions for Diagonalized Wavefront Sensing", 1999ASPC..183..320L [ADS](#)
- Zhang, H., Scharmer, G., Lofdahl, M., & Yi, Z., "Fine Structures of Magnetic Field in Solar Quiet Region", 1998SoPh..183..283Z [ADS](#)
- van Ballegooijen, A. A., Nisenson, P., Noyes, R. W., et al., "Dynamics of Magnetic Flux Elements in the Solar Photosphere", 1998ApJ...509..435V [ADS](#)
- Berger, T. E., Löfdahl, M. G., Shine, R. A., & Title, A. M., "Measurements of Solar Magnetic Element Dispersal", 1998ApJ...506..439B [ADS](#)
- Lofdahl, M. G., Duncan, A. L., & Scharmer, G. B., "Fast phase diversity wavefront sensing for mirror control", 1998SPIE.3353..952L [ADS](#)
- Lofdahl, M. G., Kendrick, R. L., Harwit, A., et al., "Phase diversity experiment to measure piston misalignment on the segmented primary mirror of the Keck II Telescope", 1998SPIE.3356.1190L [ADS](#)

- Berger, T. E., Löfdahl, M. G., Shine, R. S., & Title, A. M., “*Measurements of Solar Magnetic Element Motion from High-Resolution Filtergrams*”, 1998ApJ...495..973B [ADS](#)
- Löfdahl, M. G., E. Berger, T., Shine, R. S., & Title, A. M., “*Preparation of a Dual Wavelength Sequence of High-Resolution Solar Photospheric Images Using Phase Diversity*”, 1998ApJ...495..965L [ADS](#)
- Berger, T. E., Lofdahl, M. G., Shine, R. A., & Title, A. M., “*Measurements of Magnetic Element Dynamics in the Network*”, 1997SPD....28.0219B [ADS](#)
- Lofdahl, M. G., Berger, T. E., Shine, R. A., & Title, A. M., “*Phase-Diversity Restoration of two Simultaneous 70-minute Photospheric Sequences.*”, 1997SPD....28.0218L [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](#)
- Löfdahl, M. G.: 1996, “*Phase diversity wavefront sensing and image restoration applied to high-resolution solar observations*”, Ph.D. thesis, Stockholm University, Department of Astronomy 1996PhDT.....94L [ADS](#)
- Löfdahl, M. G. & Scharmer, G. B., “*Wavefront sensing and image restoration from focused and defocused solar images.*”, 1994A&AS..107..243L [ADS](#)
- Lofdahl, M. G. & Scharmer, G. B., “*Application of phase-diversity to solar images*”, 1994SPIE.2302..254L [ADS](#)
- Löfdahl, M. G. & Scharmer, G. B., “*Phase-Diversity Restoration of Solar Images*”, 1993rtpf.conf..89L [ADS](#)
- Löfdahl, M.: 1992, *The ROYACS User Library.*, LEST Mini-Workshop on Software for Solar Image Processing, p. 65 - 68 1992lest.rept...65L [ADS](#)
- Scharmer, G. & Lofdahl, M., “*Swedish solar telescope: Short summary of instrumentation and observation techniques*”, 1991AdSpR..11e.129S [ADS](#)