

Bibliography from ADS file: kleint.bib
September 14, 2022

- Nelson, C. J. & Kleint, L., “IRIS burst properties in active regions”, 2022arXiv220811013N [ADS](#)
- Kleint, L. & Panos, B., “Occurrence and statistics of IRIS bursts”, 2022A&A...657A.132K [ADS](#)
- Anan, T., Schad, T., Kitai, R., et al., “Chromospheric Heating Mechanisms in a Plage Region Constrained by Comparison of Magnetic Field and Mg II h & k Flux Measurements with Theoretical Studies”, 2021AGUFMSH44A...05A [ADS](#)
- Battaglia, A. F., Saqri, J., Massa, P., et al., “STIX X-ray microflare observations during the Solar Orbiter commissioning phase”, 2021A&A...656A...4B [ADS](#)
- Anan, T., Schad, T. A., Kitai, R., et al., “Measurements of Photospheric and Chromospheric Magnetic Field Structures Associated with Chromospheric Heating over a Solar Plage Region”, 2021ApJ...921...39A [ADS](#)
- Judge, P., Rempel, M., Ezzeddine, R., et al., “Measuring the Magnetic Origins of Solar Flares, Coronal Mass Ejections, and Space Weather”, 2021ApJ...917...27J [ADS](#)
- Panos, B. & Kleint, L., “Exploring Mutual Information between IRIS Spectral Lines. II. Calculating the Most Probable Response in all Spectral Windows”, 2021ApJ...915...77P [ADS](#)
- Barczynski, K., Harra, L., Kleint, L., Panos, B., & Brooks, D. H., “Comparison of active region upflow and core properties using simultaneous spectroscopic observations from IRIS and Hinode”, 2021A&A...651A.112B [ADS](#)
- Fleishman, G. D., Kleint, L., Motorina, G. G., Nita, G. M., & Kontar, E. P., “Energy Budget of Plasma Motions, Heating, and Electron Acceleration in a Three-loop Solar Flare”, 2021ApJ...913...97F [ADS](#)
- Kleint, L., “A Journey from Quiet Sun Magnetic Fields to Flares”, 2021AAS...23822301K [ADS](#)
- Anan, T., Schad, T., Kitai, R., et al., “Magnetic field structures associated with chromospheric heating in a plage region”, 2021AAS...23821222A [ADS](#)
- Panos, B., Kleint, L., & Voloshynovskiy, S., “Exploring Mutual Information between IRIS Spectral Lines. I. Correlations between Spectral Lines during Solar Flares and within the Quiet Sun.”, 2021ApJ...912...121P [ADS](#)
- Kleint, L., “Photospheric and Chromospheric Polarimetry”, 2021cosp...43E1787K [ADS](#)
- Kleint, L., “High Resolution Solar Flare Observations”, 2021cosp...43E1771K [ADS](#)
- Castellanos Durán, J. S. & Kleint, L., “The Statistical Relationship between White-light Emission and Photospheric Magnetic Field Changes in Flares”, 2020ApJ...904...96C [ADS](#)
- Barczynski, K., Harra, L. K., Kleint, L., & Panos, B., “A Comparison of the Active Region Upflow and Core Morphologies Using Simultaneous Spectroscopic Observations from IRIS and Hinode.”, 2020AGUFMSH004...05B [ADS](#)
- Krucker, S., Hurford, G. J., Grimm, O., et al., “The Spectrometer/Telescope for Imaging X-rays (STIX)”, 2020A&A...642A...15K [ADS](#)
- Auchère, F., Andretta, V., Antonucci, E., et al., “Coordination within the remote sensing payload on the Solar Orbiter mission”, 2020A&A...642A...6A [ADS](#)
- Judge, P. G., Kleint, L., Leenaarts, J., Sukhorukov, A. V., & Vial, J.-C., “New Light on an Old Problem of the Cores of Solar Resonance Lines”, 2020ApJ...901...32J [ADS](#)
- Roupe van der Voort, L. H. M., De Pontieu, B., Carlsson, M., et al., “High-resolution observations of the solar photosphere, chromosphere, and transition region. A database of coordinated IRIS and SST observations”, 2020A&A...641A.146R [ADS](#)
- Kleint, L., Berkefeld, T., Esteves, M., et al., “GREGOR: Optics redesign and updates from 2018-2020”, 2020A&A...641A...27K [ADS](#)
- Kuckein, C., González Manrique, S. J., Kleint, L., & Asensio Ramos, A., “Determining the dynamics and magnetic fields in He I 10830 Å during a solar filament eruption”, 2020A&A...640A...71K [ADS](#)
- Kuckein, C., González Manrique, S. J., Kleint, L., & Asensio Ramos, A., “Determining the dynamics and magnetic fields in the chromospheric He I 10830 Å triplet during a solar filament eruption”, 2020sea...conFE.202K [ADS](#)
- Panos, B. & Kleint, L., “Real-time Flare Prediction Based on Distinctions between Flaring and Non-flaring Active Region Spectra”, 2020ApJ...891...17P [ADS](#)
- Hannah, I. G., Kleint, L., Krucker, S., et al., “Joint X-Ray, EUV, and UV Observations of a Small Microflare”, 2019ApJ...881...109H [ADS](#)
- Ramelli, R., Bianda, M., Berdyugina, S., Belluzzi, L., & Kleint, L., “Measurement of the Evolution of the Magnetic Field of the Quiet Photosphere over a Solar Cycle”, 2019ASPC...526...283R [ADS](#)
- Kuridze, D., Mathioudakis, M., Morgan, H., et al., “Mapping the Magnetic Field of Flare Coronal Loops”, 2019ApJ...874...126K [ADS](#)
- Jurčák, J., Kašparová, J., Švanda, M., & Kleint, L., “Heating of the solar photosphere during a white-light flare”, 2018A&A...620A.183J [ADS](#)
- Jejčič, S., Kleint, L., & Heinzel, P., “High-density Off-limb Flare Loops Observed by SDO”, 2018ApJ...867...134J [ADS](#)
- Kleint, L., Wheatland, M. S., Mastrano, A., & McCauley, P. I., “Nonlinear Force-free Modeling of Flare-related Magnetic Field Changes at the Photosphere and Chromosphere”, 2018ApJ...865...146K [ADS](#)
- Kleint, L., “Solar Polarimetry - from Turbulent Magnetic Fields to Sunspots”, 2018cosp...42E1772K [ADS](#)
- Panos, B., Kleint, L., Huwylar, C., et al., “Identifying Typical Mg II Flare Spectra Using Machine Learning”, 2018ApJ...861...62P [ADS](#)
- Švanda, M., Jurčák, J., Kašparová, J., & Kleint, L., “Understanding the HMI Pseudocontinuum in White-light Solar Flares”, 2018ApJ...860...144S [ADS](#)
- Hannah, I. G., Krucker, S., Grefenstette, B., et al., “NuSTAR X-ray observations of tiny solar flares”, 2018tess.conf40801H [ADS](#)
- Huang, N., Xu, Y., Jing, J., et al., “Observation and Modeling of Mg II lines during an M6.5 Flare”, 2018tess.conf11403H [ADS](#)
- Kleint, L. & Gandorfer, A., “Prospects of Solar Magnetometry-From Ground and in Space”, in A. Balogh, E. Cliver, G. Petrie, S. Solanki, M. Thompson, and R. von Steiger (Eds.), Solar Magnetic Fields. Series: Space Sciences Series of ISSI, Vol. 57, 397–426 2018smf...book...397K [ADS](#)
- Castellanos Durán, J. S., Kleint, L., & Calvo-Mozo, B., “A Statistical Study of Photospheric Magnetic Field Changes During 75 Solar Flares”, 2018ApJ...852...25C [ADS](#)
- Rubio da Costa, F., Effenberger, F., & Kleint, L., “The connection between X-ray and coronal emission measure in solar limb flares as a diagnostic of non-thermal particle acceleration and heating processes”, 2017AGUFMSH41A2747R [ADS](#)
- Hannah, I. G., Kleint, L., Krucker, S., Glesener, L., & Grefenstette, B., “Joint NuSTAR and IRIS observation of a microflaring active region”, 2017AGUFMSH41A2743H [ADS](#)
- Kleint, L. & Gandorfer, A., “Prospects of Solar Magnetometry-From Ground and in Space”, 2017SSRv...210...397K [ADS](#)
- Heinzel, P., Kleint, L., Kašparová, J., & Krucker, S., “On the Nature of Off-limb Flare Continuum Sources Detected by SDO/HMI”, 2017ApJ...847...48H [ADS](#)
- Ramelli, R., Bianda, M., Berdyugina, S., Belluzzi, L., & Kleint, L., “Measurement of the evolution of the magnetic field of the quiet photosphere during a solar cycle”, 2017arXiv170803287R [ADS](#)
- Hannah, I., Kleint, L., Krucker, S., et al., “NuSTAR’s X-ray observations of a microflaring active region”, 2017SPD...4820101H [ADS](#)
- Rubio da Costa, F. & Kleint, L., “A Parameter Study for Modeling Mg II h and k Emission during Solar Flares”, 2017ApJ...842...82R [ADS](#)
- Kleint, L., Heinzel, P., & Krucker, S., “On the Origin of the Flare Emission in IRISextquoteright SJI 2832 Filter: Balmer Continuum or Spectral Lines?”, 2017ApJ...837...160K [ADS](#)
- Kleint, L., “First Detection of Chromospheric Magnetic Field Changes during an X1-Flare”, 2017ApJ...834...26K [ADS](#)
- Deng, N., Yurchyshyn, V., Tian, H., et al., “Multi-wavelength Study of Transition Region Penumbra Subarcsecond Bright Dots Using IRIS and NST”, 2016ApJ...829...103D [ADS](#)
- Rubio da Costa, F., Kleint, L., Petrosian, V., Liu, W., & Allred, J. C., “Data-driven Radiative Hydrodynamic Modeling of the 2014 March 29 X1.0 Solar Flare”, 2016ApJ...827...38R [ADS](#)
- Kleint, L., “Solar Polarimetry - from Turbulent Magnetic Fields to Sunspots”, 2016cosp...41E1013K [ADS](#)
- Kleint, L., “Multi-wavelength Solar Flare Observations with Ground- and Space-based Observatories”, 2016cosp...41E1012K [ADS](#)
- Rubio Da Costa, F., Kleint, L., Petrosian, V., Liu, W., & Allred, J. C., “Understanding the formation of the Mg II h&k lines during solar flares”, 2016SPD...4740304R [ADS](#)
- Norton, A. A., Cally, P., Baldner, C., et al., “Amplitudes of MHD Waves in Sunspots”, 2016SPD...47.1009N [ADS](#)
- Xu, Y., Cao, W., Ding, M., et al., “Ultra-Narrow Negative Flare Front Observed in Helium-10830 Å Using the 1.6m New Solar Telescope”, 2016SPD...47.0633X [ADS](#)
- Kleint, L., Heinzel, P., Philip, J., & Krucker, S., “The dynamics and magnetism of the X1 flare on 2014-03-29”, 2016SPD...47.0613K [ADS](#)
- Deng, N., Yurchyshyn, V. B., Tian, H., et al., “Multi-wavelength Study of Transition Region Penumbra Bright Dots Using Interface Region Imaging Spectrograph and New Solar Telescope”, 2016SPD...47.0101D [ADS](#)
- Xu, Y., Cao, W., Ding, M., et al., “Ultra-narrow Negative Flare Front Observed in Helium-10830 Å Using the 1.6 m New Solar Telescope”, 2016ApJ...819...89X [ADS](#)
- Vial, J.-C., Pelouze, G., Heinzel, P., Kleint, L., & Anzer, U., “Observed IRIS Profiles of the h and k Doublet of Mg II and Comparison with Profiles from Quiescent Prominence NLTE Models”, 2016SoPh...291...67V [ADS](#)

- Kleint, L., Heinzel, P., Judge, P., & Krucker, S., “Continuum Enhancements in the Ultraviolet, the Visible and the Infrared during the X1 Flare on 2014 March 29”, 2016ApJ...816...88K ADS
- Kuhar, M., Krucker, S., Martínez Oliveros, J. C., et al., “Correlation of Hard X-Ray and White Light Emission in Solar Flares”, 2016ApJ...816...6K ADS
- Liu, W., Heinzel, P., Kleint, L., & Kašparová, J., “Mg II Lines Observed During the X-class Flare on 29 March 2014 by the Interface Region Imaging Spectrograph”, 2015SoPh...290...3525L ADS
- Judge, P. G., Kleint, L., & Sainz Dalda, A., “On Helium 1083 nm Line Polarization during the Impulsive Phase of an X1 Flare”, 2015ApJ...814...100J ADS
- Rubio da Costa, F., Kleint, L., Sainz Dalda, A., Petrosian, V., & Liu, W., “A self-consistent combined radiative transfer hydrodynamic and particle acceleration model for the X1.0 class flare on March 29, 2014”, 2015AGUFM31B2419R ADS
- Battaglia, M., Kleint, L., Krucker, S., & Graham, D., “How Important Are Electron Beams in Driving Chromospheric Evaporation in the 2014 March 29 Flare?”, 2015ApJ...813...113B ADS
- Liu, C., Deng, N., Liu, R., et al., “A Circular-ribbon Solar Flare Following an Asymmetric Filament Eruption”, 2015ApJ...812L...19L ADS
- Heinzel, P., Liu, W., Kleint, L., & Kasparova, J., “IRIS observations of MgII lines in solar flares”, 2015IAUGA...2258503N ADS
- Kleint, L., “Advances in high-resolution observations of solar flares”, 2015IAUGA...2252932K ADS
- Kleint, L., Battaglia, M., Reardon, K., et al., “The Fast Filament Eruption Leading to the X-flare on 2014 March 29”, 2015ApJ...806...9K ADS
- Rubio da Costa, F., Kleint, L., Petrosian, V., Sainz Dalda, A., & Liu, W., “Solar Flare Chromospheric Line Emission: Comparison Between IBIS High-resolution Observations and Radiative Hydrodynamic Simulations”, 2015ApJ...804...56R ADS
- Rubio da Costa, F., Kleint, L., & Petrosian, V., “Electron Acceleration and Radiative Hydrodynamic Simulations of the 29 March 2014 X1.0 flare”, 2015TESS...130205R ADS
- Martínez-Sykora, J., Rouppe van der Voort, L., Carlsson, M., et al., “Internetwork Chromospheric Bright Grains Observed With IRIS and SST”, 2015ApJ...803...44M ADS
- Judge, P. G., Kleint, L., Uitenbroek, H., et al., “Photon Mean Free Paths, Scattering, and Ever-Increasing Telescope Resolution”, 2015SoPh...290...979J ADS
- Krucker, S., Saint-Hilaire, P., Hudson, H. S., et al., “Co-Spatial White Light and Hard X-Ray Flare Footpoints Seen Above the Solar Limb”, 2015ApJ...802...19K ADS
- Cheung, M. C. M., De Pontieu, B., Tarbell, T. D., et al., “Homologous Helical Jets: Observations By IRIS, SDO, and Hinode and Magnetic Modeling With Data-Driven Simulations”, 2015ApJ...801...83C ADS
- Judge, P. G., Kleint, L., Donea, A., Sainz Dalda, A., & Fletcher, L., “On the Origin of a Sunquake during the 2014 March 29 X1 Flare”, 2014ApJ...796...85J ADS
- Kleint, L., Battaglia, M., Krucker, S., Reardon, K., & Sainz Dalda, A., “High-resolution Observations of the X-flare on 2014-03-29”, 2014AGUFM31C...06K ADS
- Krucker, S., Saint-Hilaire, P., Hudson, H. S., et al., “Hmi and Rhesi Measurements of the Radial Location of Solar Flare Footpoints to Subarcsecond Accuracy”, 2014AGUFM31C...05K ADS
- Rubio da Costa, F., Kleint, L., Liu, W., Sainz Dalda, A., & Petrosian, V., “Comparison between IBIS Observations and Radiative Transfer Hydrodynamic Simulations of a Solar Flare”, 2014AGUFM31B4104R ADS
- Hansteen, V., De Pontieu, B., Carlsson, M., et al., “The unresolved fine structure resolved: IRIS observations of the solar transition region”, 2014Sci...346E.315H ADS
- De Pontieu, B., Rouppe van der Voort, L., McIntosh, S. W., et al., “On the prevalence of small-scale twist in the solar chromosphere and transition region”, 2014Sci...346D.315D ADS
- Peter, H., Tian, H., Curdt, W., et al., “Hot explosions in the cool atmosphere of the Sun”, 2014Sci...346C.315P ADS
- Testa, P., De Pontieu, B., Allred, J., et al., “Evidence of nonthermal particles in coronal loops heated impulsively by nanoflares”, 2014Sci...346B.315T ADS
- Tian, H., DeLuca, E. E., Cranmer, S. R., et al., “Prevalence of small-scale jets from the networks of the solar transition region and chromosphere”, 2014Sci...346A.315T ADS
- Heinzel, P. & Kleint, L., “Hydrogen Balmer Continuum in Solar Flares Detected by the Interface Region Imaging Spectrograph (IRIS)”, 2014ApJ...794L...23H ADS
- Pereira, T. M. D., De Pontieu, B., Carlsson, M., et al., “An Interface Region Imaging Spectrograph First View on Solar Spicules”, 2014ApJ...792L...15P ADS
- Tian, H., Kleint, L., Peter, H., et al., “Observations of Subarcsecond Bright Dots in the Transition Region above Sunspots with the Interface Region Imaging Spectrograph”, 2014ApJ...790L...29T ADS
- De Pontieu, B., Title, A. M., Lemen, J. R., et al., “The Interface Region Imaging Spectrograph (IRIS)”, 2014SoPh...289...2733D ADS
- Kleint, L., Antolin, P., Tian, H., et al., “Detection of Supersonic Downflows and Associated Heating Events in the Transition Region above Sunspots”, 2014ApJ...789L...42K ADS
- Donea, A. C., Judge, P., Kleint, L., & Sainz-Dalda, A., “A particular seismic event generated during the solar flare 2014 March 29”, 2014shin.confE...49D ADS
- Rubio Da Costa, F., Petrosian, V., Liu, W., Carlsson, M., & Kleint, L., “Hybrid Kinetic and Radiative Hydrodynamic Simulations of Solar Flares and Comparison With Multiwavelength Observations”, 2014AAS...22440906R ADS
- Tian, H., DeLuca, E., Weber, M. A., et al., “IRIS observations of the transition region above sunspots: oscillations and moving penumbral dots”, 2014AAS...22431306T ADS
- Sainz Dalda, A. & Kleint, L., “Relationship between unusual features in umbrae and flares”, 2014AAS...22412314S ADS
- Tian, H., DeLuca, E., Reeves, K. K., et al., “High-resolution Observations of the Shock Wave Behavior for Sunspot Oscillations with the Interface Region Imaging Spectrograph”, 2014ApJ...786...137T ADS
- Vial, J.-C., Anzer, U., Heinzel, P., & Kleint, L., “A comparison between observed IRIS profiles of the h & k doublet of Mg II and profiles from quiescent prominence NLTE models”, 2014cosp...40E3515V ADS
- Heinzel, P., Kasparova, J., Kleint, L., & Dzifcakova, E., “MgII lines in solar flares: IRIS observations and NLTE modeling”, 2014cosp...40E1182H ADS
- Antolin, P., Katsukawa, Y., De Pontieu, B., Kleint, L., & Pereira, T., “Coronal rain observed with IRIS”, 2014cosp...40E.105A ADS
- Kleint, L. & Sainz Dalda, A., “Unusual Filaments inside the Umbra”, 2013ApJ...770...74K ADS
- Judge, P. G., Kleint, L., Casini, R., & Schad, T., “Spectropolarimetry of a Limb Active Region and its Cool Coronal Structures”, 2012AAS...22052119J ADS
- Kleint, L., “Spectropolarimetry of C-class Flare Footpoints”, 2012ApJ...748...138K ADS
- Kleint, L. & Sainz Dalda, A., “Spectropolarimetry of the photosphere and the chromosphere with IBIS”, 2012decs.confE...4K ADS
- Kleint, L., Shapiro, A. I., Berdyugina, S. V., & Bianda, M., “Solar turbulent magnetic fields: Non-LTE modeling of the Hanle effect in the C₂ molecule”, 2011A&A...536A...47K ADS
- Kleint, L. & Judge, P., “Spectropolarimetry Of The Footpoints Of A C-class Flare In The Chromosphere”, 2011SPD...42.0308K ADS
- Kleint, L., Feller, A., & Gisler, D., “Imaging spectropolarimetry with two LiNbO₃ Fabry Péro interferometers and a spectrograph”, 2011A&A...529A...78K ADS
- Kleint, L., Berdyugina, S. V., Shapiro, A. I., & Bianda, M., “Solar turbulent magnetic fields: surprisingly homogeneous distribution during the solar minimum”, 2010A&A...524A...37K ADS
- Kleint, L., Berdyugina, S. V., Shapiro, A. I., & Bianda, M., “Turbulent Magnetic Fields in the Quiet Sun: A Search for Cyclic Variations”, 2010ASPC...428...103K ADS
- Kleint, L., Berdyugina, S. V., Gisler, D., Shapiro, A. I., & Bianda, M., “A synoptic program for large solar telescopes: Cyclic variation of turbulent magnetic fields”, 2010AN...331...644K ADS
- Kleint, L.: 2010, “Exploring solar turbulent magnetic fields and advancing instrumentation for spectropolarimetry”, Ph.D. thesis, Eidgenössische Technische Hochschule, Zurich, Switzerland 2010PhDT...562K ADS
- Kleint, L., Reardon, K., Stenflo, J. O., Uitenbroek, H., & Tritschler, A., “Spectropolarimetry of Ca II 8542: Probing the Chromospheric Magnetic Field”, 2009ASPC...405...247K ADS
- Kleint, L., Berdyugina, S., & Bianda, M., “Synoptic program - Variations of the Turbulent magnetic field”, 2008ESPM...12.2.71K ADS
- Kleint, L., Feller, A., & Bianda, M., “Combination of two Fabry-Perot etalons and a grating spectrograph for imaging polarimetry of the Sun”, 2008SPIE.7014E...14K ADS
- Uitenbroek, H., Tritschler, A., Reardon, K., & Kleint, L., “Two-dimensional Spectropolarimetry At The Dunn Solar Tower”, 2007AAS...210.2605U ADS