

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

- Dudík, J., Aulanier, G., Kasparova, J., et al., “Filament Leg–Leg Reconnection as a Source of Prominent Supra-Arcade Downflows”, 2022arXiv220900306D [ADS](#)
- Dzifcakova, E., Dudík, J., Zemanova, A., & Lorincik, J., “KAPPA package and diagnostics of the kappa-distribution from EUV solar spectra”, 2022cosp...44.1218D [ADS](#)
- Del Zanna, G., Polito, V., Dudík, J., et al., “Diagnostics of non-Maxwellian electron distributions in solar active regions from Fe XII lines observed by Hinode/EIS and IRIS”, 2022arXiv220707026D [ADS](#)
- Lörinčík, J., Dudík, J., & Polito, V., “Blueshifted Si IV 1402.77 Å Line Profiles in a Moving Flare Kernel Observed by IRIS”, 2022ApJ...934...80L [ADS](#)
- Lörinčík, J., Dudík, J., & Polito, V., “Blueshifted Si IV 1402.77 Å line profiles in a moving flare kernel observed by IRIS”, 2022arXiv220610114L [ADS](#)
- Del Zanna, G., Polito, V., Dudík, J., et al., “Diagnostics of Non-Maxwellian Electron Distributions in Solar Active Regions from Fe XII Lines Observed by the Hinode Extreme Ultraviolet Imaging Spectrometer and Interface Region Imaging Spectrograph”, 2022ApJ...930...61D [ADS](#)
- Dzifčáková, E., Dudík, J., Žemanová, A., Lörinčík, J., & Karlický, M., “KAPPA: A Package for the Synthesis of Optically Thin Spectra for the Non-Maxwellian κ -distributions. II. Major Update to Compatibility with CHIANTI Version 10”, 2021ApJS..257...62D [ADS](#)
- Lörinčík, J., Dudík, J., & Aulanier, G., “Saddle-shaped Solar Flare Arcades”, 2021ApJ...909L...4L [ADS](#)
- Gunár, S., Schmieder, B., Aulanier, G., et al., “Links between prominence/filament magnetic field and plasma: What can 3D WPFS models teach us?”, 2021cosp...43E1769G [ADS](#)
- Schmieder, B., Aulanier, G., Gunár, S., Dudík, J., & Heinzel, P., “Magnetic support of the solar filaments”, 2021cosp...43E1766S [ADS](#)
- Dudík, J., Del Zanna, G., Rybák, J., et al., “Electron Densities in the Solar Corona Measured Simultaneously in the Extreme Ultraviolet and Infrared”, 2021ApJ...906...118D [ADS](#)
- Lörinčík, J., Dudík, J., Aulanier, G., Schmieder, B., & Golub, L., “Imaging Evidence for Solar Wind Outflows Originating from a Coronal Mass Ejection Footpoint”, 2021ApJ...906...62L [ADS](#)
- Dudík, J. & Dzifčáková, E., “Diagnostics of Kappa Distributions from Optically Thin Solar Spectra”, 2021ASSL..464...53D [ADS](#)
- Toth, J., Matlovic, P., Zigo, P., et al., “Lyrids 2020 observations by AMOS, spectral, visual and photographic methods”, 2020JIMO...48...199T [ADS](#)
- Žemanová, A., Karlický, M., Kašparová, J., & Dudík, J., “Flare Expansion to a Magnetic Rope Accompanied by Rare Radio Bursts”, 2020ApJ...905...111Z [ADS](#)
- Lörinčík, J., Dudík, J., del Zanna, G., Dzifčáková, E., & Mason, H. E., “Plasma Diagnostics from Active Region and Quiet-Sun Spectra Observed by Hinode/EIS: Quantifying the Departures from a Maxwellian Distribution”, 2020ApJ...893...34L [ADS](#)
- Dzifčáková, E., Žemanová, A., Dudík, J., & Lörinčík, J., “Diagnoses of non-thermal-distributions from solar flare EUV line spectra”, 2020IAUS..354..414D [ADS](#)
- Dudík, J., Lörinčík, J., Aulanier, G., Žemanová, A., & Schmieder, B., “Observation of All Pre- and Post-reconnection Structures Involved in Three-dimensional Reconnection Geometries in Solar Eruptions”, 2019ApJ...887...71D [ADS](#)
- Lörinčík, J., Dudík, J., & Aulanier, G., “Manifestations of Three-dimensional Magnetic Reconnection in an Eruption of a Quiescent Filament: Filament Strands Turning to Flare Loops”, 2019ApJ...885...83L [ADS](#)
- Žemanová, A., Dudík, J., Aulanier, G., Thalmann, J. K., & Gömöry, P., “Observations of a Footpoint Drift of an Erupting Flux Rope”, 2019ApJ...883...96Z [ADS](#)
- Lörinčík, J., Aulanier, G., Dudík, J., Žemanová, A., & Dzifčáková, E., “Velocities of Flare Kernels and the Mapping Norm of Field Line Connectivity”, 2019ApJ...881...68L [ADS](#)
- Dudík, J., Dzifčáková, E., Del Zanna, G., et al., “Signatures of the non-Maxwellian κ -distributions in optically thin line spectra. II. Synthetic Fe XVII–XVIII X-ray coronal spectra and predictions for the Marshall Grazing-Incidence X-ray Spectrometer (MaGXIS)”, 2019A&A...626A..88D [ADS](#)
- Aulanier, G. & Dudík, J., “Drifting of the line-tied footpoints of CME flux-ropes”, 2019A&A...621A..72A [ADS](#)
- Lörinčík, J., Dudík, J., Kašparová, J., et al., “Fast velocities of flare ribbon kernels and ribbon elongation in a quiescent filament eruption of 2012 August 31 observed by SDO/AIA”, 2018csc..confE..63L [ADS](#)
- Aulanier, G., Dudík, J., Zuccarello, F. P., Demoulin, P., & Schmieder, B., “The nature of imploding loops during solar eruptions as revealed by MHD simulations and AIA observations”, 2018csc..confE..19A [ADS](#)
- Gunár, S., Dudík, J., Aulanier, G., Schmieder, B., & Heinzel, P., “Importance of the H α Visibility and Projection Effects for the Interpretation of Prominence Fine-structure Observations”, 2018ApJ...867..115G [ADS](#)
- Polito, V., Dudík, J., Kašparová, J., et al., “Broad Non-Gaussian Fe XXIV Line Profiles in the Impulsive Phase of the 2017 September 10 X8.3-class Flare Observed by Hinode/EIS”, 2018ApJ...864...63P [ADS](#)
- Polito, V., Dudík, J., Kasparova, J., et al., “Broad Non-Gaussian fe XXIV Line Profiles in the Impulsive Phase of the 2017 September 10 X8.3-CLASS Flare Observed by Hinode/eis”, 2018shin.confE.212P [ADS](#)
- Schmieder, B., Aulanier, G., Dalmasse, K., et al., “Signature of flux ropes before and after eruptions: electric currents in active regions”, 2018cosp...42E3026S [ADS](#)
- Gunár, S., Schmieder, B., Aulanier, G., et al., “Can 3D whole-prominence fine structure models be used for assessment of the prominence plasma mass and distribution prior to the onset of CMEs?”, 2018cosp...42E1316G [ADS](#)
- Dzifčáková, E. & Dudík, J., “Non-equilibrium ionization by a periodic electron beam. II. Synthetic Si IV and O IV transition region spectra”, 2018A&A...610A..67D [ADS](#)
- Karlický, M., Žemanová, A., Dudík, J., & Radziszewski, K., “Solar Radio Burst Associated with the Falling Bright EUV Blob”, 2018ApJ...854L..29K [ADS](#)
- Dzifčáková, E., Žemanová, A., Dudík, J., & Mackovjak, Š., “Spectroscopic Diagnostics of the Non-Maxwellian κ -distributions Using SDO/EVE Observations of the 2012 March 7-class Flare”, 2018ApJ...853...158D [ADS](#)
- Dudík, J., Dzifčáková, E., Meyer-Vernet, N., et al., “Nonequilibrium Processes in the Solar Corona, Transition Region, Flares, and Solar Wind (Invited Review)”, 2017SoPh..292..100D [ADS](#)
- Dudík, J., Zuccarello, F. P., Aulanier, G., Schmieder, B., & Démoulin, P., “Expanding and Contracting Coronal Loops as Evidence of Vortex Flows Induced by Solar Eruptions”, 2017ApJ...844...54D [ADS](#)
- Dudík, J., Polito, V., Dzifčáková, E., Del Zanna, G., & Testa, P., “Non-Maxwellian Analysis of the Transition-region Line Profiles Observed by the Interface Region Imaging Spectrograph”, 2017ApJ...842...19D [ADS](#)
- Dzifčáková, E., Vocks, C., & Dudík, J., “Synthetic IRIS spectra of the solar transition region: Effect of high-energy tails”, 2017A&A...603A..14D [ADS](#)
- Polito, V., Del Zanna, G., Valori, G., et al., “Analysis and modelling of recurrent solar flares observed with Hinode/EIS on March 9, 2012”, 2017A&A...601A..39P [ADS](#)
- Zuccarello, F. P., Aulanier, G., Dudík, J., et al., “Vortex and Sink Flows in Eruptive Flares as a Model for Coronal Implosions”, 2017ApJ...837..115Z [ADS](#)
- Dudík, J., Dzifčáková, E., Del Zanna, G., Mackovjak, Š., & Mason, H. E., “Can the non-Maxwellian kappa-distributions be diagnosed in the solar corona?”, 2016AGUFMSH21D255D [ADS](#)
- Sobotka, M., Dudík, J., Denker, C., et al., “Slipping reconnection in a solar flare observed in high resolution with the GREGOR solar telescope”, 2016A&A...596A..1S [ADS](#)
- Polito, V., Del Zanna, G., Dudík, J., et al., “Density diagnostics derived from the O iv and S iv intercombination lines observed by IRIS”, 2016A&A...594A..64P [ADS](#)
- Schmieder, B., Aulanier, G., Janvier, M., et al., “Evidence of flux rope and sigmoid in Active Regions prior eruptions”, 2016cosp...41E1750S [ADS](#)
- Dudík, J., Polito, V., Janvier, M., et al., “Slipping Magnetic Reconnection, Chromospheric Evaporation, Implosion, and Precursors in the 2014 September 10 X1.6-Class Solar Flare”, 2016ApJ...823...41D [ADS](#)
- Dzifčáková, E., Dudík, J., & Mackovjak, Š., “Non-equilibrium ionization by a periodic electron beam. I. Synthetic coronal spectra and implications for interpretation of observations”, 2016A&A...589A..68D [ADS](#)
- Dzifčáková, E. & Dudík, J., “Erratum: Erratum to: Ionisation Equilibrium for the Non-Maxwellian Electron n-Distributions in Solar Flares: Updated Calculations”, 2016SoPh..291..729D [ADS](#)
- Dzifčáková, E. & Dudík, J., “Updated calculations of the ionization equilibrium for the non-Maxwellian electron n-distributions in solar flares”, 2016IAUS..320..243D [ADS](#)
- Sobotka, M., Dudík, J., Denker, C., et al., “GREGOR observations of a small flare above a sunspot”, 2016IAUS..320..68S [ADS](#)
- Polito, V., Reep, J. W., Reeves, K. K., et al., “Simultaneous IRIS and Hinode/EIS Observations and Modelling of the 2014 October 27 X2.0 Class Flare”, 2016ApJ...816...89P [ADS](#)
- Dzifčáková, E. & Dudík, J., “Ionisation Equilibrium for the Non-Maxwellian Electron n -Distributions in Solar Flares: Updated Calculations”, 2015SoPh..290..3545D [ADS](#)
- Dzifčáková, E. & Dudík, J., “Updated calculations of the ionization equilibrium for the non-Maxwellian electron n-distributions in solar flares”, 2015IAUGA..225477D [ADS](#)
- Dzifčáková, E. & Dudík, J., “On the possibility to diagnose a kappa-distribution from EVE flare spectra”, 2015IAUGA..2254765D [ADS](#)

- Dudík, J., Janvier, M., Polito, V., et al., “Slipping reconnection and chromospheric evaporation in the 10 September 2014 flare”, [2015IAUGA..2252237D ADS](#)
- Sobotka, M., Dudík, J., Denker, C., et al., “GREGOR observations of a small flare above a sunspot”, [2015IAUGA..2246841S ADS](#)
- Dudík, J., Mackovjak, Š., Dzifčáková, E., et al., “Imaging and Spectroscopic Observations of a Transient Coronal Loop: Evidence for the Non-Maxwellian κ -Distributions”, [2015ApJ...807..123D ADS](#)
- Sych, R., Karlický, M., Alyntsev, A., Dudík, J., & Kashapova, L., “Sunspot waves and flare energy release”, [2015A&A...577A..43S ADS](#)
- Dzifčáková, E., Dudík, J., Kotrč, P., Fárník, F., & Zemanová, A., “KAPPA: A Package for Synthesis of Optically Thin Spectra for the Non-Maxwellian κ -distributions Based on the Chianti Database”, [2015ApJS..217..14D ADS](#)
- Dzifčáková, E., Dudík, J., Kotrč, P., Fárník, F., & Zemanová, A.: 2015, *KAPPA: Optically thin spectra synthesis for non-Maxwellian kappa-distributions*, Astrophysics Source Code Library, record ascl:1502.008 [2015ascl.soft02008D ADS](#)
- Dudík, J., Dzifčáková, E., & Curtin, J. W., “On the Area Expansion of Magnetic Flux Tubes in Solar Active Regions”, [2014ApJ...796..20D ADS](#)
- Dudík, J., Del Zanna, G., Mason, H. E., & Dzifčáková, E., “Signatures of the non-Maxwellian κ -distributions in optically thin line spectra. I. Theory and synthetic Fe IX–XIII spectra”, [2014A&A...570A.124D ADS](#)
- Gunár, S., Schwartz, P., Dudík, J., et al., “Magnetic field and radiative transfer modelling of a quiescent prominence”, [2014A&A...567A.123G ADS](#)
- Dudík, J., Janvier, M., Aulanier, G., et al., “Slipping Magnetic Reconnection during an X-class Solar Flare Observed by SDO/AIA”, [2014ApJ...784..144D ADS](#)
- Mackovjak, Š., Dzifčáková, E., & Dudík, J., “Differential emission measure analysis of active region cores and quiet Sun for the non-Maxwellian κ -distributions”, [2014A&A...564A.130M ADS](#)
- Polito, V., Mason, H., Del Zanna, G., & Dudík, J., “Chromospheric evaporation in recurrent flares”, [2014cosp...40E2581P ADS](#)
- Dzifčáková, E. & Dudík, J., “New calculations of the ionization equilibrium for the non-Maxwellian electron distribution in solar flares”, [2014cosp...40E.772D ADS](#)
- Dudík, J., Mason, H., Del Zanna, G., Golub, L., & Dzifčáková, E., “Diagnostics for the O IV and Si IV lines observed by IRIS”, [2014cosp...40E.754D ADS](#)
- Dudík, J., Del Zanna, G., Dzifčáková, E., Mason, H. E., & Golub, L., “Solar Transition Region Lines Observed by the Interface Region Imaging Spectrograph: Diagnostics for the O IV and Si IV Lines”, [2014ApJ...780L..12D ADS](#)
- Dzifčáková, E. & Dudík, J., “H to Zn Ionization Equilibrium for the Non-Maxwellian Electron κ -distributions: Updated Calculations”, [2013ApJS..206....6D ADS](#)
- Mészárosová, H., Dudík, J., Karlický, M., Madsen, F. R. H., & Sawant, H. S., “Fast Magnetoacoustic Waves in a Fan Structure Above a Coronal Magnetic Null Point”, [2013SoPh..283..473M ADS](#)
- Schmieder, B., Parenti, S., Dudík, J., et al., “SDO/AIA Prominence physical conditions”, [2013enss.confE..27S ADS](#)
- Dzifčáková, E., Karlický, M., & Dudík, J., “Dielectronic satellite lines and double layers in solar flares”, [2013A&A...550A..60D ADS](#)
- Mackovjak, Š., Dzifčáková, E., & Dudík, J., “On the Possibility to Diagnose the Non-Maxwellian κ -Distributions from the Hinode/EIS EUV Spectra”, [2013SoPh..282..263M ADS](#)
- Dudík, J., Aulanier, G., Schmieder, B., Zapíor, M., & Heinzel, P., “Magnetic Topology of Bubbles in Quiescent Prominences”, [2012ApJ...761....9D ADS](#)
- Dudík, J., Schmieder, B., Aulanier, G., Zapíor, M., & Heinzel, P., “Can bubbles in quiescent prominences be purely magnetic phenomena?”, [2012cosp...39..486D ADS](#)
- Dudík, J., Reeves, K. K., Schmieder, B., Dzifčáková, E., & Golub, L., “Temperature Diagnostic of a Brightening Observed by Hinode/XRT”, [2012ASPC..456..137D ADS](#)
- Dzifčáková, E., Dudík, J., & Karlický, M., “X-ray and EUV Filter Responses for Nonthermal κ -Distributions”, [2012ASPC..456..135D ADS](#)
- Dudík, J., Kašparová, J., Dzifčáková, E., Karlický, M., & Mackovjak, Š., “The non-Maxwellian continuum in the X-ray, UV, and radio range”, [2012A&A...539A.107D ADS](#)
- Karlický, M., Dzifčáková, E., & Dudík, J., “On the physical meaning of n -distributions in solar flares”, [2012A&A...537A..36K ADS](#)
- Dudík, J., Dzifčáková, E., Karlický, M., & Kulinová, A., “Is it possible to model observed active region coronal emission simultaneously in EUV and X-ray filters?”, [2011A&A...531A.115D ADS](#)
- Dzifčáková, E., Homola, M., & Dudík, J., “The ionization equilibrium and flare line spectra for the electron distribution with a power-law tail”, [2011A&A...531A.111D ADS](#)
- Dudík, J., Dzifčáková, E., Karlický, M., & Kulinová, A., “The bound-bound and free-free radiative losses for the nonthermal distributions in solar and stellar coronae”, [2011A&A...529A.103D ADS](#)
- Dudík, J., Dzifčáková, E., Karlický, M., & Kulinová, A., “VizieR Online Data Catalog: Radiative losses in solar and stellar coronae (Dudík+, 2011)”, [2011yCat..35290103D ADS](#)
- Dudík, J., Dzifčáková, E., Kulinová, A., & Karlický, M., “Kappa-distribúcie a ohrev korónyKappa-distribúcie a ohrev korónyKappa-distributions and coronal heating”, [2010nspm.conf..161D ADS](#)
- Mackovjak, Š., Dudík, J., & Dzifčáková, E., “Emisia C IV a magnetická topológiaEmisia C IV a magnetická topológiaC IV emission and magnetic topology.”, [2010nspm.conf...78M ADS](#)
- Dudík, J., Kulinová, A., Dzifčáková, E., & Karlický, M., “EUV filter responses to plasma emission for the nonthermal κ -distributions”, [2009A&A...505.1255D ADS](#)
- Dudík, J., Dzifčáková, E., Karlický, M., & Kulinová, A., “Analytical model of static coronal loops”, [2009A&A...502..957D ADS](#)
- Dudík, J., Dzifčáková, E., Kulinová, A., & Karlický, M., “Hydrostatic Modelling of Active Region EUV and X-ray Emission”, [2008ESPM...12.3.65D ADS](#)
- Dudík, J., Aulanier, G., Schmieder, B., Bommier, V., & Roudier, T., “Topological Departures from Translational Invariance along a Filament Observed by THEMIS”, [2008SoPh..248..29D ADS](#)
- Dudík, J., Dzifčáková, E., Karlický, M., Wu, S. T., & Wang, A. H., “Simulation of Active Region Coronal Loops EUV Emission”, [2006ESASP.617E..57D ADS](#)
- Kulinová, A., Dzifčáková, E., & Dudík, J., “Changes in Filament Connectivity and its Structure during the C-Class Flare”, [2005ESASP.600E.129K ADS](#)
- Dzifčáková, E., Kulinová, A., Tóthová, D., & Dudík, J., “C IV Enhanced Emission and the Non-Thermal Electron Distribution”, [2005ESASP.600E.120D ADS](#)