

**Bibliography from ADS file: kucera-ales.bib**  
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- Erdélyi, R., Korsós, M. B., Huang, X., et al., “The Solar Activity Monitor Network - SAMNet”, 2022JWSC...12...2E ADS
- Balthasar, H., Gömöry, P., González Manrique, S. J., et al., “Spectropolarimetric Observations of an Arch Filament System with GREGOR”, 2019ASPC...526...217B ADS
- Gömöry, P., Balthasar, H., Kuckein, C., et al., “Flare-induced changes of the photospheric magnetic field in a  $\delta$ -spot deduced from ground-based observations”, 2017A&A...602A...60G ADS
- Kucera, A., “Propagation of filament and hot plasma through solar atmosphere as observed with ground based and space instruments”, 2017psio.confE...73K ADS
- Balthasar, H., Gömöry, P., González Manrique, S. J., et al., “Spectropolarimetric observations of an arch filament system with the GREGOR solar telescope”, 2016AN...337.1050B ADS
- Schwartz, P., Balthasar, H., Kuckein, C., et al., “NLTE modeling of a small active region filament observed with the VTT”, 2016AN...337.1045S ADS
- Kučera, A., Ambróz, J., Gömöry, P., et al., “The CoMP-S Instrument at the Lomnický Peak Observatory: Status Report”, 2016ASPC...504...321K ADS
- Schwartz, P., Balthasar, H., Kuckein, C., et al., “Non-LTE Inversion of Spectropolarimetric and Spectroscopic Observations of a Small Active-region Filament Observed at the VTT”, 2016ASPC...504...205S ADS
- Kucera, A., Tomczyk, S., Rybak, J., et al., “Dual instrument for Flare and CME onset observations - Soolar coronagraph with Solar Chromospheric Detector and Coronal Multi-channel Polarimeter at Lomnický stit Observatory”, 2015IAUGA...2246687K ADS
- Tóth, J., Svoreň, J., Borovička, Jiří Spurný, P., et al., “The Košice meteorite fall: Recovery and strewn field”, 2015M&PS...50...853T ADS
- Koza, J., Rybák, J., Gömöry, P., & Kučera, A., “Inferring spectral characteristics of the H $\alpha$  spectral line observed by the DOT Lyot filter”, 2014CoSka...44...43K ADS
- Schwartz, P., Ambroz, J., Gömöry, P., et al., “Coronal Multi-channel Polarimeter at the Lomnický Peak Observatory”, 2014IAUS...300...521S ADS
- Koza, J., Hammerschlag, R. H., Rybák, J., et al., “Transmission profile of the Dutch Open Telescope H $\alpha$  Lyot filter”, 2014AN...335...409K ADS
- Koza, J., Sütterlin, P., Gömöry, P., Rybák, J., & Kučera, A., “Search for Alfvén waves in a bright network element observed in H $\alpha$ ”, 2013CoSka...43...5K ADS
- Schwartz, P., Rybák, J., Kučera, A., et al., “A quiescent prominence observed in the H $\alpha$  line by the COMP-S instrument at the Lomnický Peak Observatory”, 2012CoSka...42...135S ADS
- Toth, J., Porubčan, V., Borovička, J., et al., “Košice meteorite - recovery and the strewn field”, 2012epsc.conf...708T ADS
- Rybák, J., Gömöry, P., Mačura, R., et al., “The LSO/KSO H $\alpha$  prominence catalogue: cross-calibration of data”, 2011CoSka...41...133R ADS
- Rybák, J., Ambróz, J., Gömöry, P., et al., “Koronálny multikanálový polarimeter pre observatórium Lomnický štítKoronálny multikanálový polarimeter pre observatórium Lomnický štítCoronal multichannel polarimeter for Lomnický štít Observatory”, 2010nspm.conf...196R ADS
- Gömöry, P., Beck, C., Balthasar, H., et al., “Magnetic loop emergence within a granule”, 2010A&A...511A...14G ADS
- Wu, S. T., Wang, A. H., Gary, G. A., et al., “Analyses of magnetic field structures for active region 10720 using a data-driven 3D MHD model”, 2009AdSpR...44...46W ADS
- Hanslmeier, A., Kučera, A., Rybák, J., Wöhl, H., & Gömöry, P., “Solar Convection and Oscillation Interaction”, 2009CEAB...33...51H ADS
- Kucera, A., Beck, C., Gomory, P., et al., “Multi-wavelength Observations of Dynamic Fibrils in the Upper Photosphere and Chromosphere”, 2008ESPM...12.2.52K ADS
- Rybak, J., Kucera, A., Hanslmeier, A., et al., “Observational Evidence for Shocks in the Solar Photosphere - New TESOS/VTT Results”, 2008ESPM...12.2.36R ADS
- Hanslmeier, A., Kučera, A., Rybák, J., & Wöhl, H., “Observation of Turbulence in Solar Surface Convection: I. Line Parameter Correlations”, 2008SoPh...249...293H ADS
- Gömöry, P., Rybák, J., Kučera, A., Curdt, W., & Wöhl, H., “Propagating Waves in the Chromospheric Network”, 2007ASPC...368...133G ADS
- Koza, J., Sütterlin, P., Kučera, A., & Rybák, J., “Temporal Variations in Fibril Orientation”, 2007ASPC...368...115K ADS
- Koza, J., Kučera, A., Rybák, J., & Wöhl, H., “The height dependence of temperature velocity correlation in the solar photosphere”, 2007msfa.conf...139K ADS
- Kučera, A., Wöhl, H., Rybák, J., Wu, S. T., & Wang, A. H., “Spectral Characteristics of the Photosphere near a Flare”, 2007CEAB...31...21K ADS
- Rybák, J., Kučera, A., Wöhl, H., Wedemeyer-Böhm, S., & Steiner, O., “A New Method for Comparing Numerical Simulations with Spectroscopic Observations of the Solar Photosphere”, 2006ASPC...354...77R ADS
- Koza, J., Kučera, A., Rybák, J., & Wöhl, H., “The Height Dependence of Quiet-Sun Photospheric Temperature Fluctuations in Observations and Simulations”, 2006ASPC...354...43K ADS
- Koza, J., Kučera, A., Rybák, J., & Wöhl, H., “Photospheric modeling through spectral line inversion. Temperature and radial velocity stratifications and fluctuations”, 2006A&A...458...941K ADS
- Tomasz, F., Régnier, S., Schwarz, P., et al., “Study of a Small-Scale Eruptive Event Observed by SOHO/SUMER”, 2006ESASP.617E...79T ADS
- Tomasz, F., Régnier, S., Schwarz, P., et al., “The Dynamics and Structure of the Solar Atmosphere As Obtained from Combined SUMER/SOHO and TIP2/VTT Observations”, 2006ESASP.617E...78T ADS
- Kucera, A., Wöhl, H., Rybák, J., Gömöry, P., & Veronig, A., “Multi-Wavelength Observations with High Resolution of a M5.4 Flare from Ground and Space”, 2006ESASP.617E...68K ADS
- Gömöry, P., Rybák, J., Kučera, A., Curdt, W., & Wöhl, H., “SOHO/CDS observations of waves above the network”, 2006A&A...448.1169G ADS
- Hanslmeier, A., Kučera, A., Rybák, J., & Wöhl, H., “Acoustic Flux and Turbulence in the Solar Photosphere”, 2006CEAB...30...11H ADS
- Odert, P., Hanslmeier, A., Rybák, J., Kučera, A., & Wöhl, H., “Influence of the 5-min oscillations on solar photospheric layers. I. Quiet region”, 2005A&A...444...257O ADS
- Gömöry, P., Rybák, J., Kucera, A., & Wöhl, H., “Analysis of Dynamics of Loops in AN Active Region Associated with a Small C-Class Flare”, 2005ESASP.596E...56G ADS
- Tomasz, F., Rybák, J., Kučera, A., Curdt, W., & Wöhl, H., “Influence of Transition Region Blinks on the Surrounding Chromospheric and Coronal Plasma”, 2005HvaOB...29...197T ADS
- Kučera, A., Wöhl, H., Rybák, J., Gömöry, P., & Tomasz, F., “High Resolution Observations of a M5.4 Flare”, 2005HvaOB...29...177K ADS
- Gömöry, P., Rybák, J., Kučera, A., Curdt, W., & Wöhl, H., “Variability and Dynamics of the Outer Atmospheric Layers in the Quiet Solar Network”, 2005HvaOB...29...71G ADS
- Koza, J. & Kučera, A., “Response Functions of Spectral Lines Suitable for Diagnostics of Solar Rotation”, 2005HvaOB...29...21K ADS
- Tomasz, F., Rybák, J., Kučera, A., Curdt, W., & Wöhl, H., “On the Behaviour of a Blinks in Chromospheric and Transition Region Layers”, 2005ASSL...320...207T ADS
- Gömöry, P., Rybák, J., Kučera, A., Curdt, W., & Wöhl, H., “Analysis of Doppler Shifts of Spectral Lines Obtained by the CDS/SOHO Instrument”, 2005ASSL...320...203G ADS
- Rybák, J., Kucera, A., Curdt, W., & Wöhl, H., “Observational Evidences for Heating of the Solar Corona by Nanoflares in the Network Derived from the Transition Region Spectral Lines”, 2004ESASP.575...529R ADS
- Gömöry, P., Rybák, J., Kucera, A., Curdt, W., & Wöhl, H., “Dynamics of the Quiet Upper Solar Atmosphere in the Network”, 2004ESASP.575...400G ADS
- Hanslmeier, A., Kucera, A., Rybák, J., & Wöhl, H., “Two-dimensional spectroscopic time series of solar granulation”, 2004SoPh...223...13H ADS
- Rybák, J., Wöhl, H., Kučera, A., Hanslmeier, A., & Steiner, O., “Indications of shock waves in the solar photosphere”, 2004A&A...420.1141R ADS
- Wöhl, H., Brajša, R., Kučera, A., Ruždjak, V., & Rybák, J., “Proper motions of sunspots - new data and further results”, 2004HvaOB...28...47W ADS
- Odert, P., Hanslmeier, A., Rybák, J., Kučera, A., & Wöhl, H., “One-dimensional spectroscopy of the solar photosphere”, 2004HvaOB...28...37O ADS
- Kučera, A., Koza, J., Bellot Rubio, L. R., et al., “Velocity field in the intergranular atmosphere”, 2004HvaOB...28...19K ADS
- Rybák, J., Kucera, A., Curdt, W., & Wöhl, H., “On Relations among the Calibrated Parameters of the Transition Region Spectral Line”, 2004ESASP.547...311R ADS
- Tomasz, F., Rybák, J., Kucera, A., Curdt, W., & Wöhl, H., “SUMER/SOHO and TRACE Study of the Transition Region Blinks”, 2004ESASP.547...307T ADS
- Gömöry, P., Rybák, J., Kucera, A., Curdt, W., & Wöhl, H., “On Mutual Relation Among the Outer Atmospheric Layers in Network: SOHO/CDS Study”, 2004ESASP.547...303G ADS
- Koza, J. & Kučera, A., “The range of reliability of the line-of-sight velocity in a semiempirical model of a granule”, 2003CoSka...33...224K ADS
- Tomasz, F., Rybák, J., Kučera, A., Curdt, W., & Wöhl, H., “Transition region blinker - spatial and temporal behaviour”, 2003HvaOB...27...75T ADS
- Gömöry, P., Rybák, J., Kučera, A., Curdt, W., & Wöhl, H., “Transition region eruptive event observed with SOHO/CDS in the quiet Sun network”, 2003HvaOB...27...67G ADS
- Kučera, A., Rybák, J., Hanslmeier, A., & Wöhl, H., “Observational evidence for a shock event in the solar granulation”, 2003HvaOB...27...25K ADS
- Wöhl, H., Brajša, R., Kučera, A., Ruždjak, V., & Rybák, J., “Proper motions of sunspot groups”, 2003HvaOB...27...1W ADS

- Brčeková, K., Kučera, A., Hanslmeier, A., Rybák, J., & Wöhl, H., "Dynamics and turbulence of the chromospheric layers of a flaring atmosphere", 2003AN...324..366B ADS
- Koza, J., Bellot Rubio, L. R., Kučera, A., et al., "Evolution of temperature in granule and intergranular space", 2003AN...324..349K ADS
- Hanslmeier, A., Kučera, A., Rybák, J., & Wöhl, H., "Two-dimensional spectroscopic time series of solar granulation: evolution of individual granules", 2002ESASP.506..633H ADS
- Brčeková, K., Kučera, A., Hanslmeier, A., Rybák, J., & Wöhl, H., "Line intensities of chromospheric and photospheric spectra of a flare", 2002ESASP.506..557B ADS
- Koza, J., Bellot Rubio, L. R., Kučera, A., et al., "Line-of-sight velocity in a semiempirical model of a disappearing granule", 2002ESASP.506..443K ADS
- Wöhl, H., Kučera, A., Rybák, J., & Hanslmeier, A., "Precise reduction of solar spectra obtained with large CCD arrays", 2002A&A...394..1077W ADS
- Koza, J., Kucera, A., Hanslmeier, A., Rybák, J., & Wöhl, H., "Temporal evolution of physical parameters in granule", 2002ESASP.505..457K ADS
- Brčeková, K., Kucera, A., Hanslmeier, A., Rybák, J., & Wöhl, H., "Dynamic coupling of the chromospheric and photospheric flaring plasma", 2002ESASP.505..357B ADS
- Koza, J. & Kučera, A., "Spectral line response to temperature perturbation in solar and stellar photospheric models. I. Neutral Fe I line 522.5nm case", 2002CoSka...32..190K ADS
- Kučera, A., Hanslmeier, A., Rybák, J., & Wöhl, H., "High-resolution CCD spectra reduction: temporal changes of the flat-field compensation", 2002NCimC...25..703K ADS
- Rybák, J., Curdt, W., Kučera, A., & Wöhl, H., "Transition region dynamics from SUMER/SOHO observations: shape of the emission spectral lines", 2002ESASP.477..163R ADS
- Kucera, A., "JOSO national report 2000-2001 - Slovakia. Solar research in Slovak Republic 2000-2001", in Joint Organization for Solar Observations, Annual Report 2000/2001, 100-102 2002joso.book...100K ADS
- Cauzzi, G., Kucera, A., & Schmieder, B., "Minutes of the 33rd JOSO Board Meeting - 2001", in Joint Organization for Solar Observations, Annual Report 2000/2001, 15-20 2002joso.book...15C ADS
- Cauzzi, G., Kucera, A., & Schmieder, B., "Minutes of the 32nd JOSO Board Meeting - 2000", in Joint Organization for Solar Observations, Annual Report 2000/2001, 10-14 2002joso.book...10C ADS
- Kucera, A.: 2002, Joint Organization for Solar Observations, Annual Report 2000/2001, Vol. 30/31. 2002joso.book...K ADS
- Hanslmeier, A., Kučera, A., Rybák, J., & Wöhl, H., "The Location of Solar Oscillations in the Photosphere", 2001ASSL...259..267H ADS
- Rybák, J., Kučera, A., Curdt, W., Schühle, U., & Wöhl, H., "Chromospheric Dynamics as can be Inferred from SUMER/SOHO Observations", 2001ASSL...259..247R ADS
- Hanslmeier, A., Kučera, A., Rybák, J., & Wöhl, H., "Dynamics of the Upper Photosphere: Coherence and Phase Analysis (CD-ROM Directory: contrib/hanslmei)", 2001ASPC...223..669H ADS
- Gadun, A. S., Hanslmeier, A., Kučera, A., Rybák, J., & Wöhl, H., "Correlative relationships in an inhomogeneous solar atmosphere", 2000A&A...363..289G ADS
- Hanslmeier, A., Kučera, A., Rybák, J., Neunteufel, B., & Wöhl, H., "Dynamics of the upper solar photosphere", 2000A&A...356..308H ADS
- Wöhl, H., Rybák, J., & Kucera, A., "Interaction of Sunspots with the Surrounding Plasma - a Progress Report", 2000HvaOB...24..119W ADS
- Kucera, A., Brčeková, A. K., Hanslmeier, A., Rybák, J., & Wöhl, H., "Spectral Statistics of Fe I and Ca II K Lines in the Quiet and Active Solar Atmosphere", 2000HvaOB...24..111K ADS
- Hanslmeier, A., Kucera, A., Rybák, J., & Wöhl, H., "Two Dimensional Spectral Time Series", 2000HvaOB...24..81H ADS
- Kucera, A., Brčeková, K., Hanslmeier, A., Rybák, J., & Wöhl, H., "Fe I and Ca II K Lines in Quiet and Active Regions", 2000ESASP.463..357K ADS
- Hanslmeier, A., Kucera, A., Rybák, J., & Wöhl, H., "3-D Tomography of the Solar Photosphere", 2000ESASP.463..333H ADS
- Rybák, J., Curdt, W., Kucera, A., Schühle, U., & Wöhl, H., "Chromospheric and Transition Region Dynamics - Reasons and Consequences of the Long-period Instrumental Periodicities of SUMER/SOHO", 1999ESASP.448..361R ADS
- Rybák, J., Curdt, W., Kučera, A., Schühle, U., & Wöhl, H., "Chromospheric And Transition Region Dynamics - Reasons and Consequences of the Short Period Instrumental Periodicities of SOHO/SUMER", 1999ESASP.446..579R ADS
- Kucera, A., Rybák, J., Wöhl, H., & Hanslmeier, A., "Fiber Optics Device for Solar Spectroscopy - First Measurements", 1999ASPC...184..319K ADS
- Kučera, A., Curdt, W., Fludra, A., Rybák, J., & Wöhl, H., "SOHO JOP 078 - variability and properties of the quiet sun supergranular network and inter-network.", 1999joso.proc...149K ADS
- Kucera, A., Rybák, J., & Wöhl, H., "Correlation of Velocity Fields at Different Heights in the Solar Photosphere", 1999ASSL...239..219K ADS
- Kucera, A., Balthasar, H., Rybák, J., & Wöhl, H., "Heights of formation of Fe I photospheric lines", 1998A&A...332..1069K ADS
- Kučera, A., Rybák, J., & Saniga, M., "Behaviour of solar active prominence", 1998PAICz...88..232K ADS
- Kucera, A., Curdt, W., Rybák, J., Schühle, U., & Wöhl, H., "Oscillations in Chromosphere and Transition Region Based on SUMER Measurements", 1998ASPC...155..351K ADS
- Kučera, A., Rybák, J., & Wöhl, H., "Measurement of rotational characteristics of sunspots and surrounding photospheric plasma.", 1997joso.proc...68K ADS
- Curdt, W., Kucera, A., Rybák, J., Schühle, U., & Wöhl, H., "Dynamical Properties of the Chromosphere and Transition Region in the Supergranular Network: What Precision of the Spectral Line Characteristics Can be Reached?", 1997ESASP.404..307C ADS
- Curdt, W., Kucera, A., Rybák, J., Schühle, U., & Wöhl, H., "Investigation of the Dynamics of Chromosphere and Photosphere from Spectra Obtained by Parallel Observations using SUMER on SOHO and the VTT on Tenerife", 1997ASPC...118..322C ADS
- Kucera, A., Rybák, J., & Wöhl, H., "Observations of Fe I lines in the quiet solar photosphere.", 1995A&A...298..917K ADS
- Zverko, J., Antalova, A., Svoren, J., et al.: 1995, Contributions of the Astronomical Observatory Skalnaté Pleso, Volume 25, Journal Issue, Slovak Academy of Sciences Tatranska Lomnica, Slovak Republic Astronomical Inst. 1995STIN...9624442Z ADS
- Kucera, A. & Antalová, A., "H-Alpha Morphology of Gamma-Flares", 1994step.conf...151K ADS
- Kučera, A., Rybák, J., & Wöhl, H., "Magnetic and nonmagnetic line profiles in solar quiet and active regions", 1994smf.conf...291K ADS
- , "JOSO Workshop: Instrumentation for magnetic field measurements", 1994imfm.conf...K ADS
- Kučera, A., Rybák, J., & Minaroviech, M., "Mass Ejections from Chromosphere to Corona: Results from a Spectral Analysis", 1994emsp.conf...147K ADS
- Kucera, A. & Baranovsky, E. A., "A Solar Plage Model", 1994IAUS...154..29K ADS
- Kucera, A., "Joint Organization for Solar Observations (24th meeting)", 1993Kozmo...24..23K ADS
- Kucera, A., Saniga, M., & Rybák, J., "Hot mass transport in the solar active prominence", 1992AIPC...267..160K ADS
- Kucera, A., Scherbakova, Z., & Baranovsky, E., "Height-Dependent Solar Plage Temperature Distribution (With 3 Figures)", 1991mcch.conf...109K ADS
- Kucera, A., Rybák, J., Minaroviech, M., Novocký, D., & Saniga, M., "The horizontal solar telescope with spectrograph at Stará Lesná Observatory", 1990Ap&SS.171..279K ADS
- Baranovskij, E. A., Kuchera, A., Kučera, A., & Shcherbakova, Z. A., "The H, K and IR triplet of Ca II in plages.", 1987IzKry...77...3B ADS
- Saniga, M., Kučera, A., Novocký, D., & Rybák, J., "Can small-scale bipolar structures originate in the solar atmosphere?", 1986CoSka...15..683S ADS
- Kučera, A., "The Crimean Astrophysical Observatory.", 1984Kozmo...15...10K ADS
- Martin, S. F., Bentley, R. D., Schadee, A., et al., "Relationships of a growing magnetic flux region to flares", 1984AdSpR...4g..61M ADS
- Kucera, A., "Irregular Rotation of the Main Sunspot in Active Region Hale 17 570 of 5-13 April 1981", 1982BAICz...33..345K ADS
- Martin, S. F., Dezso, L., Antalova, A., Kucera, A., & Harvey, K. L., "Emerging magnetic flux, flares and filaments - FBS interval 16-23 June 1980", 1982AdSpR...2k..39M ADS
- Chochol, D. & Kucera, A., "Search for the Period of the Binary Shell Star V505 Monocerotis", 1981IBVS.1998...1C ADS