

SP-600 Table of Contents

OPENING ADDRESS

G. Poletto

Session 1.1: Solar Dynamo and Interior Flows

Chair: B. Fleck

STATISTICAL PROPERTIES OF THE SOLAR CYCLE 23 EXTRACTED FROM THE SUNSPOT AND ACTIVE REGION VARIATIONS IN THE SOLAR FEATURE CATALOGUES

S.I. Zharkov, V.V. Zharkova & A.K. Benkhalil

Session 1.2: Solar Dynamo and Interior Flows

Chair: G. Aulanier

A CHALLENGING TURBULENT MAGNETIC SUN

A.S. Brun

VARIATIONS OF SOLAR RADIUS: OBSERVATIONS WITH RHESI

M.D. Fivian, H.S. Hudson & R.P. Lin

INTERPLANETARY MAGNETIC FIELD CALCULATED FROM PHOTOSPHERIC MEASUREMENTS

V.N. Obridko, A.V. Belov & B.D. Shelting

ON THE α EFFECT AND CURRENT HELICITY OF SOLAR MAGNETIC FIELDS

K.M. Kuzanyan, V.V. Pipin & N. Seehafer

Session 2.1: Structure and Dynamics of the Photosphere and Chromosphere

Chairs: M. Carlsson & A. Hofmann

QUANTUM SPECTROPOLARIMETRY AND THE SUN'S HIDDEN MAGNETISM

J. Trujillo Bueno

THE MAGNETIC CONFIGURATION IN LIGHT BRIDGES

J. Jurčák, M. Sobotka & V. Martínez Pillet

3-D SOLAR ATMOSPHERIC MODEL OVER ACTIVE REGIONS

C.L. Selhorst, J.E.R. Costa & A.V.R. Silva

Session 2.2: Structure and Dynamics of the Photosphere and Chromosphere

Chairs: M. Carlsson & A. Hofmann

RECENT PROGRESSES IN THE PHYSICS OF SMALL-SCALE MAGNETIC FIELDS

O. Steiner

SIMULATIONS OF SOLAR PORES

R. Cameron, A. Vögler, M. Schüssler & V. Zakharov

QUIET SOLAR PHOTOSPHERE: COMPARISONS OF HIGH RESOLUTION OBSERVATIONS WITH 3-D SIMULATIONS

G. Cauzzi, A. Asensio Ramos, K. Reardon & K. Janssen

NUMERICAL MODELLING OF FLUX EMERGENCE IN THE SOLAR ATMOSPHERE: EFFECTS OF PARTIAL IONISATION

J.E. Leake

Session 2.3: Structure and Dynamics of the Photosphere and Chromosphere

Chairs: M. Carlsson & A. Hofmann

A COMPARISON BETWEEN SPICULES IN H α AND CIV

A.G. de Wijn, B. De Pontieu & R. Erdélyi

SUNSPOT UMBRAL OSCILLATIONS AND RUNNING WAVES

K. Tziotziou, G. Tsiropoula, N. Mein & P. Mein

Session 2.4: Structure and Dynamics of the Photosphere and Chromosphere

Chairs: M. Carlsson & A. Hofmann

CHROMOSPHERIC WAVES

M. Carlsson & V. Hansteen

ARE HIGH FREQUENCY ACOUSTIC WAVES SUFFICIENT TO HEAT THE SOLAR CHROMOSPHERE?

A. Fossum & M. Carlsson

MULTI-LINE SPECTROSCOPY OF GRAINS

S. Kamio & H. Kurokawa

POD ANALYSIS OF PHOTOSPHERIC VELOCITY FIELD: SOLAR OSCILLATIONS AND GRANULATION

A. Vecchio, V. Carbone, F. Lepreti, P. Veltri, Th. Straus & L. Sorriso-Valvo

Session 3.1: Magnetic Structures, Dynamics and Coronal Heating

Chairs: J. Sylwester & G. Poletto

PARTICLE-IN-CELL SIMULATIONS OF CIRCULARLY POLARISED ALFVEN WAVE PHASE MIXING: A NEW MECHANISM FOR ELECTRON ACCELERATION IN COLLISIONLESS, KINETIC PLASMAS

D. Tsiklauri, J.-I. Sakai & S. Saito

SEISMOLOGY OF CORONAL LOOPS USING RESONANT ABSORPTION

I. Arregui, T. Van Doorselaere, J. Andries, M. Goossens & S. Poedts

3D NUMERICAL SIMULATIONS OF MAGNETIC RECONNECTION DRIVEN BY ROTATIONAL FOOTPOINT MOTIONS

I. De Moortel & K. Galsgaard

Session 3.2: Magnetic Structures, Dynamics and Coronal Heating

Chairs: J. Sylwester & G. Poletto

CROSS-FIELD DIFFUSION OF ELECTRONS IN TANGLED MAGNETIC FIELDS AND IMPLICATIONS FOR CORONAL FINE STRUCTURE

R.K. Galloway, P. Helander & A.L. MacKinnon

LOCATING RECONNECTION SITES IN THE SOLAR ATMOSPHERE

J. Büchner

STUDY OF A TRANSIENT SIPHON FLOW IN A COLD LOOP

Y. Taroyan, J.G. Doyle, B. Ishak, M.S. Madjarska & S.J. Bradshaw

ABOUT THE FE XIV 530.3 NM LINE EMISSIONS OF THE MIDDLE CORONA

S. Koutchmy, L. Contesse, Ch. Viladrich, J. Vilinga & K. Bocchialini

Session 3.3: Magnetic Structures, Dynamics and Coronal Heating

Chairs: J. Sylwester & G. Poletto

SUB-STRUCTURING, DYNAMICS AND HEATING IN DENSE CORONAL STRUCTURES

F. Reale

DETERMINATION OF HOT PLASMA CHARACTERISTICS FROM *TRACE* IMAGES.

S. Gburek & T. Mrozek

MULTIWAVELENGTH ANALYSIS OF DOWNFLOWS ALONG AN OFF-LIMB LOOP

A. De Groof, D.A.N. Müller & S. Poedts

A MULTI-WAVELENGTH VIEW ON CORONAL RAIN

D.A.N. Müller, A. De Groof, B. De Pontieu & V.H. Hansteen

Session 4.1: Coronal Energy Conversion: Storage, Release and Particle Acceleration

Chairs: L. Klein, L. Fletcher & M. Karlický

THEORY OF ENERGY STORAGE AND RELEASE IN THE SOLAR CORONA

T. Neukirch

X-RAY SOURCES AND MAGNETIC RECONNECTION IN AN X-CLASS FLARE

A.M. Veronig, B. Vršnak, M. Karlický, M. Temmer, J. Magdalenic, B.R. Dennis, W. Otruba & W. Pötzi

X-RAY QUASI-PERIODIC PULSATIONS IN SOLAR FLARES AS MAGNETOHYDRODYNAMIC OSCILLATIONS

C. Foullon, E. Verwichte, V.M. Nakariakov & L. Fletcher

Session 4.2: Coronal Energy Conversion: Storage, Release and Particle Acceleration

Chairs: L. Klein, L. Fletcher & M. Karlický

OBSERVATIONAL SIGNATURES OF ENERGY STORAGE AND RELEASE IN THE CORONA

S.A. Matthews

RHESSI OBSERVATION OF FLARE ELEMENTS

P.C. Grigis & A.O. Benz

Session 4.3: Coronal Energy Conversion: Storage, Release and Particle Acceleration

Chairs: L. Klein, L. Fletcher & M. Karlický

ENERGETIC PARTICLE SIGNATURES AT GAMMA-RAY, X-RAY AND RADIO WAVELENGTHS

N. Vilmer

THE TIME CORRELATIONS BETWEEN $H\alpha$ AND X-RAY EMISSION OF THE SOLAR FLARES

K. Radziszewski, P. Rudawy & K.J.H. Phillips

Session 4.4: Coronal Energy Conversion: Storage, Release and Particle Acceleration

Chairs: L. Klein, L. Fletcher & M. Karlický

MULTIWAVELENGTH OBSERVATIONS OF A PARTIALLY OCCULTED SOLAR FLARE

L. Bone, J.C. Brown & L. Fletcher

MEASURING THE CORONAL MAGNETIC FIELD IN POSTFLARE LOOPS

H. Aurass & G. Rausche

PARTICLE ACCELERATION AT THREE-DIMENSIONAL RECONNECTION SITES IN SOLAR FLARES

P.K. Browning & S. Dalla

Session 5.1: Solar Wind: From the Corona to the Heliosphere

Chairs: G. Poletto & B. Fleck

APPLICATION OF AN HYBRID MHD WIND MODEL WITH LATITUDINAL DEPENDENCES TO THE ULYSSES SOLAR WIND DATA AT MINIMUM

A. Aibéo, J. Lima & C. Sauty

ALFVÉN WAVES IN THE SOLAR ATMOSPHERE: A NONLINEAR MODEL FROM THE PHOTOSPHERE TO 1 AU

A. Verdini, M. Velli & S. Oughton

VARIATION OF LINE WIDTHS IN POLAR OFF-LIMB REGIONS

D. Banerjee, E. O'Shea & J.G. Doyle

Session 5.2: Solar Wind: From the Corona to the Heliosphere

Chairs: G. Poletto & B. Fleck

SOLARWIND COMPOSITION

P. Wurz

LASCO-C1 SPECTRAL DATA ANALYSIS OF THE SLOW SOLAR WIND

M. Mierla, R. Schwenn, L. Teriaca, B. Podlipnik, & G. Stenborg

Session 6.2: Coronal Mass Ejections and Space Weather

Chairs: G. Aulanier, S. Poedts & A. Hanslmeier

ERUPTING FLUX ROPE, RISING X-RAY SOURCE AND A SLOW CME ON 16 APRIL 2002

C.P. Goff, L. van Driel-Gesztelyi, L.K. Harra, S.A. Matthews & C.H. Mandrini

Session 6.3: Coronal Mass Ejections and Space Weather

Chairs: G. Aulanier, S. Poedts & A. Hanslmeier

RELATING NEAR-EARTH OBSERVATIONS OF AN INTERPLANETARY CORONAL MASS EJECTION TO THE CONDITIONS AT ITS SITE OF ORIGIN IN THE SOLAR CORONA

A. N. Fazakerley, L.K. Harra, J.L. Culhane, L. van Driel-Gesztelyi, E. Lucek, S.A. Matthews, C.J. Owen, C. Mazelle, A. Balogh & H. Réme

Poster Session 1: Solar Dynamo and Interior Flows

GENERATION OF SUNSPOTS AND POLAR FACULAE FROM A KINEMATIC DYNAMO

D.K. Callebaut & V.I. Makarov

MAUNDER MINIMUM ACCORDING TO NEW AND ARCHIVE DATA

D.K. Callebaut, V.I. Makarov & A.G. Tlatov

TEMPORAL VARIATIONS OF THE SOLAR CORONA ROTATION

O.G. Badalyan, V.N. Obridko, & J. Šýkora

THE EFFECTS OF CURRENT HELICITY AND SHEAR ON THE MEAN ELECTROMOTIVE FORCE AND ON THE LONG-TERM MAGNETIC ACTIVITY VARIATIONS IN STELLAR DYNAMOS

V. Pipin & K. Kuzanyan

HEMISPHERIC SUNSPOT NUMBERS R_N AND R_S FROM 1945-2004: EXTENDED AND IMPROVED CATALOGUE

M. Temmer, J. Rybák, A. Veronig, P. Bendík, F. Vogler, W. Pötzi, W. Otruba & A. Hanslmeier

LINEAR SOURCES OF ACOUSTIC WAVES IN THE SHEAR FLOWS OF SOLAR CONVECTION

A.G. Tevzadze, G.D. Chagelishvili & M. Goossens

Poster Session 2: Structure and Dynamics of the Photosphere and Chromosphere

TRACE OBSERVATIONS OF SOLAR SPICULES BEYOND THE LIMB IN LY-AND CIV

C. E. Alissandrakis, Th. Zachariadis & C. Gontikakis

THE VERTICAL COMPONENT OF ELECTRIC CURRENT DENSITIES IN SUNSPOTS

H. Balthasar

SYNTHESIS OF STOKES PROFILES FROM A TWO COMPONENT PENUMBRAL MODEL

N. Bello González, O. Okunev & F. Kneer

ACTIVE REGION MAGNETIC FIELD OBSERVED WITH THEMIS/MSDP AND SOHO/MDI INSTRUMENTS

A. Berlicki, P. Mein & B. Schmieder

MULTI-WAVELENGTH ANALYSIS OF PLASMA FLOWS DURING SOLAR FLARES

A. Berlicki, B. Schmieder, P. Heinzel, H. Li, G. Del Zanna & P. Rudawy

STUDY OF POLAR FACULAE

J. Blanco Rodríguez, B. Sánchez-Andrade Nuño, K.G. Puschmann & F. Kneer

MOVING MAGNETIC FEATURES AROUND SUNSPOTS

H.J. Hagenaar & R.S. Shine

APPLYING THE CRAMÉR-RAO LOWER BOUND TO SPECTROSCOPIC MEASUREMENTS

J. Ireland

VELOCITY FIELDS AROUND QUIESCENT SOLAR FILAMENT ACCORDING TO THE DATA OF SAYAN SOLAR OBSERVATORY

G.P. Mashnich, V.S. Bashkirtsev & A.I. Khlystova

MAGNETOHYDRODYNAMIC TURBULENCE IN THE PLASMA AT THE PHOTOSPHERIC LEVEL IN A REGION WITH SOLAR FILAMENTS

A.I. Khlystova & I.I. Salakhutdinova

KINK WAVES IN SOLAR SPICULES: OBSERVATION AND MODELLING

V. Kukhianidze, T.V. Zaqarashvili & E. Khutsishvili

THE DIAGNOSTIC POTENTIAL OF THE MG I 4571.1 Å LINE

Ø. Langangen, M. Carlsson & L.R. van der Voort

FRACTAL STRUCTURE OF SOLAR SUPERGRANULATION

U. Paniveni, V. Krishan, J. Singh & R. Srikanth

COLLISIONAL DRIFT INSTABILITY IN PLASMAS WITH INELASTIC COLLISIONS

D. Petrovic, J. Vranjes & S. Poedts

ELECTROSTATIC MODES IN PARTIALLY IONIZED PLASMA

J. Vranjes & S. Poedts

SEGMENTATION, CLASSIFICATION AND ANALYSIS OF A SOLAR GRANULATION IMAGE SERIES

M. Saldaña Muñoz, R. Muller & A. Hanslmeier

CHROMOSPHERIC DYNAMICS OF A SOLAR ACTIVE REGION

B. Sánchez-Andrade Nuño, K.G. Puschmann, M. Sánchez Cuberes, J. Blanco Rodríguez & F. Kneer

MAPPING OF LARGE-SCALE PHOTOSPHERIC VELOCITY FIELDS

M. Švanda, M. Klvaňa & M. Sobotka

PHYSICAL PARAMETERS OF DARK MOTTLES DERIVED FROM HIGH RESOLUTION OPTICAL SPECTRA

G. Tsiropoula, K. Tziotziou, P. Schwartz, P. Kotrč & P. Heinzel

FORMATION OF NEUTRAL MANGANESE LINES POTENTIALLY SUITABLE FOR PLASMA DIAGNOSTICS

N. Vitas, S. Danilović, O. Atanacković-Vukmanović & Ištvan Vince

DIAGNOSTICS OF A SIMULATED FLUX TUBE EMERGENCE

L. Yelles Chaouche, M. Cheung, A. Lagg & S. Solanki

STATISTICS OF THE QUIET SUN INTENSITY DISTRIBUTION

C.A. Young, J. Ireland & D. Bewsher

Poster Session 3: Magnetic Structures, Dynamics and Coronal Heating

THE CENTER LIMB BEHAVIOR OF FACULAR-ELEMENT FLUXES

A. Ajabshirizadeh & S. Koutchmy

SEGMENTATION OF EIT IMAGES USING FUZZY CLUSTERING: A PRELIMINARY STUDY

Vincent Barra, V. Delouille, J.-F. Hochedez & P. Chainais

CONTRIBUTION TO MODELING OF CORONAL MAGNETIC FIELD

Marcel Belík, P. Ambroz & E. Marková

MHD WAVES OBSERVED IN ISOLATED BRIGHTPOINTS

L. Bharti, R. Jain, C. Joshi & S.N.A. Jaaffrey

ABOUT PARAMETERS OF NEW SPECTRAL POLARIZATION RECEIVER FOR SOLAR STUDY WITH RATAN-600

V.M. Bogod, A.M. Alesin, S.V. Baldin, V.I. Garaimov & A.A. Pervakov

VARIABLE CORONAL HEATING AND BEAM FORMATION

C. Briand, A. Mangeney & F. Califano

A MODEL OF NANOFLARE ENERGIES BASED ON RELAXATION THEORY

P.K. Browning, R. van der Linden, C. Gerrard, R. Kevis & A. Hood

BUILDING A TIME DEPENDENT CODE TO SIMULATE OSCILLATIONS OF LINE-TIED CORONAL LOOPS

T. Van Doorselaere, S. Poedts, I. Arregui & J. Andries

RESONANTLY DAMPED CORONAL LOOP OSCILLATIONS

M.V. Dymova & M.S. Ruderman

PROMINENCE FINE STRUCTURES IN A MAGNETIC EQUILIBRIUM: A GRID OF TWO-DIMENSIONAL MODELS

S. Gunár, P. Heinzel & U. Anzer

PRELIMINARY RESULTS FROM SECIS OBSERVATIONS OF THE 2001 TOTAL SOLAR ECLIPSE

A.C. Katsiyannis, D.R. Williams, F. Murtagh, R.T.J. McAteer & F.P. Keenan

DEM DISTRIBUTIONS FOR SHORT AND LONG DURATION FLARES AS DETERMINED FROM RESIKSOFT X-RAY SPECTRA

A. Kepa, J. Sylwester, B. Sylwester, M. Siarkowski & V. Kuznetsov

THE FORCE-FREE MODEL OF THE S-SHAPED MAGNETIC ARCADE: STRUCTURE AND ENERGY

E.A. Kirichek & A.A. Soloviev

RESONANT CONVERSION OF STANDING ACOUSTIC OSCILLATIONS INTO ALFVÉN WAVES IN THE $\beta \sim 1$ REGION OF THE SOLAR ATMOSPHERE

D. Kuridze, T.V. Zaqarashvili & B. Roberts

BEAM-INSTABILITIES IN A CORONAL FUNNEL WITHIN THE MULTI-FLUID DESCRIPTION

R. Mecheri & E. Marsch

PROPAGATING WAVES IN OFF-LIMB POLAR REGIONS

E. O'Shea, D. Banerjee & G. Doyle

VELOCITY FLUCTUATIONS IN CORONAL LOOPS AS FLARE DRIVERS

G. Nigro, F. Malara & P. Veltri

SOLAR HYDROGEN LYMAN CONTINUUM OBSERVATIONS WITH SOHO/SUMER

S. Parenti, J.-C. Vial & P. Lemaire

EVIDENCE OF SMALL SCALE RECONNECTION IN A MOVING FEATURE

S. Régnier & R.C. Canfield

SOLAR CORONAL HEATING BY MAGNETIC CANCELLATION

B. von Rekowski, C.E. Parnell & E.R. Priest

DAMPING MECHANISMS OF CORONAL LOOP OSCILLATIONS

M.S. Ruderman

NON-LTE MODELLING OF THE EUV FILAMENT BASED ON SOHO/SUMER OBSERVATIONS OF THE HYDROGEN LYMAN LINES

P. Schwartz, P. Heinzel & B. Schmieder

NON-MODAL SELF-HEATING OF THE SOLAR ATMOSPHERE: AN ALTERNATIVE WAY TO ENHANCE THE WAVE HEATING PROCESS

B.M. Shergelashvili, S. Poedts & A.D. Pataraya

ANOMALOUS VISCOUS DISSIPATION OF SLOW MAGNETO-ACOUSTIC WAVES

T. Siversky, Y. Voitenko & M. Goossens

THE DYNAMICS OF THE LOWER TRANSITION REGION AS INFERRED FROM SPECTROSCOPY OF THE HYDROGEN LYMAN- α LINE

L. Teriaca, U. Schühle, S.K. Solanki, W. Curdt & E. Marsch

TRANSVERSE WAVES IN A POST-FLARE SUPRA-ARCADE

E. Verwichte, V.M. Nakariakov & F.C. Cooper

HYDROGEN LYMAN α PROFILES OF AN ACTIVE REGION FILAMENT OBTAINED WITH SUMER ON SOHO

J.-C. Vial, C. Boutry & K. Wilhelm

PHASE MIXING OF MHD ALFVÉN WAVES AND ORIGIN OF SOLAR WIND

Y. Voitenko & M. Goossens

LOW FREQUENCY WAVES IN SPATIALLY BOUNDED PLASMA

J. Vranjes & S. Poedts

FLARELIKE BRIGHTENINGS OF ACTIVE REGION LOOPS OBSERVED WITH SUMER

T.J. Wang, D.E. Innes, S.K. Solanki & W. Curdt

Poster Session 4: Coronal Energy Conversion: Storage, Release and Particle Acceleration

COMPLEX SOLAR EVENTS OBSERVED WITH THE ARTEMIS-IV RADIO-SPECTROGRAPH IN OCTOBER/NOVEMBER 2003

C.E. Alissandrakis, A. Nindos, A. Hilaris, C. Caroubalos & the ARTEMIS team

THE INVESTIGATION OF JANUARY 2005 SOLAR FLARES GAMMA-EMISSION BY AVS-F APPARATUS DATA ONBOARD CORONAS-F SATELLITE IN 0.1-20 MEV ENERGY BAND

I.V. Arkhangel'skaja, A.I. Arkhangel'skii, A.S. Glyanenko, Yu.D. Kotov & S.N. Kuznetsov

THE SOLAR FLARES OBSERVED IN LOW ENERGY GAMMA-RAY BAND BY AVS-F APPARATUS DATA ONBOARD CORONAS-F SATELLITE IN 2001-2005 YEARS

I.V. Arkhangel'skaja, A.I. Arkhangel'skii, A.S. Glyanenko, Yu.D. Kotov & S.N. Kuznetsov

DETERMINATION OF X-RAY LOOP-TOP KERNELS DENSITY

U. Bak-Steslicka & J. Jakimiec

CURRENT SHEET DYNAMICS AT THE DISSIPATION SCALE

M. Bárta & M. Karlický

A SURVEY OF X-CLASS SOLAR FLARES DURING 2001 AND 2002 IN SEARCH FOR SEISMIC RADIATION

D. Besliu-Ionescu, A-C. Donea, P. Cally & C. Lindsey

ABOUT STUDY OF EARLY PREFLARE STAGE OF ACTIVE REGION AT MICROWAVES

V.M. Bogod, V.I. Garaimov & T.I. Kaltman

MODEL OF GALACTIC AND ANOMALOUS COSMIC RAY SPECTRUM IN THE PLANETARY IONOSPHERES. CALCULATION OF CRIONIZATION EFFECTS IN THE IONOSPHERE AND MIDDLE ATMOSPHERE

M. Buchvarova & P.I.Y. Velinov

SIMULATION OF THE $H\alpha$ LOOPS DURING BRIGHT SOLAR FLARE

S.N. Chornogor, E.A. Baranovsky & K.V. Alikaeva

PREFLARE HXR AND CHROMOSPHERIC LINE EMISSION IN NOAA 0652 ON 25TH JULY 2004

S.N. Chornogor, L.K. Kashapova, R.A. Sych & O.V. Andriyenko

THE SPATIAL DISTRIBUTION OF HARD X-RAY EMISSION IN SOLAR FLARES: A STATISTICAL APPROACH

T. Ciborski & M. Tomczak

A SOLAR SCIENCE CASE WITH ASTROGRID: FLARE PRODUCTIVITY OF RECENTLY-EMERGED PAIRED AND ISOLATED ACTIVE REGIONS

S. Dalla, L. Fletcher & N.A. Walton

PARTICLE ACCELERATION IN AN INTERMITTENT RMHD TURBULENCE

N. Décamp & F. Malara

THE EXCITATION EQUILIBRIUM OF *SI XVII* AND *CA XIX* IN THE SOLAR CORONA FOR ELECTRON POWER DISTRIBUTION

E. Dzifčáková

C IV ENHANCED EMISSION AND THE NON-THERMAL ELECTRON DISTRIBUTION

E. Dzifčáková, A. Kulinová, D. Tóthová & J. Dudík

GEOMETRICAL ASPECT OF THE ENERGY TRANSFER IN THE SOLAR FLARES

R. Falewicz, P. Rudawy & M. Siarkowski

HARD X-RAY EMISSION AND ITS RELATION TO REVERSE DRIFT BURSTS IN THE 0.8-4.5 GHz RANGE

F. Fárnik & M. Karlický

HELIOSPHERIC CURRENT SHEET NORTH-SOUTH ASYMMETRY SINCE 1926

T. Hiltula & K. Mursula

INVESTIGATION OF PARTICLE ACCELERATION ON CONVERGING MAGNETIC MIRRORS

J. Jakimiec

TWO EXAMPLES OF THE FLARE IN THE FLARE: X14.4 APRIL 15, 2001 AND X17.2 OCTOBER 28, 2003 FLARES

M. Karlický, F. Fárnik, H. Mészárosová & K. Jiříčka

ON AN EFFECT OF PARTICLE BEAMS ON CORRELATION BETWEEN BALMER SERIES LINES

L.K. Kashapova, P. Kotrč, Yu.A. Kupryakov & J. Kašparová

H α LINE IN SOLAR ATMOSPHERE HEATED BY PARTICLE BEAMS

J. Kašparová, M. Varady, M. Karlický, Z. Moravec & P. Heinzel

ENERGY RELEASE IN LONG-DURATION ARCADE FLARES

S. Kolomański & J. Jakimiec

CHANGES IN FILAMENT CONNECTIVITY AND ITS STRUCTURE DURING THE C-CLASS FLARE

A. Kulinová, E. Dzifčáková & J. Dudík

A MODEL OF QUIET TIME PARTICLE ACCELERATION IN INTERPLANETARY SPACE

F. Lepreti, H. Isliker, L. Vlahos & K. Petraki

PROPERTIES OF VERY SHORT DURATION SOLAR RADIO BURSTS

J. Magdaleníć, B. Vršnak, P. Zlobec & H. Aurass

DYNAMICS OF ELECTRON SPATIAL DISTRIBUTION IN MICROWAVE FLARING LOOPS

V.F. Melnikov, S.P. Gorbikov, V.E. Reznikova & K. Shibasaki

STATISTICAL ANALYSIS OF PULSATIONS AND PULSATIONS WITH FIBERS IN THE RANGE 800-2000 MHz

H. Mészárosová, J. Rybák, P. Zlobec, J. Magdaleníć, M. Karlický & K. Jiříčka

ELECTRON ACCELERATION DUE TO JETS IN THE SOLAR CORONA

R. Miteva & G. Mann

TRACE IMPULSIVE RESPONSE IN SOLAR FLARE FOOTPOINTS

T. Mrozek, S. Gburek & M. Tomczak

PROPAGATION OF ENERGETIC ELECTRONS IN THE SOLAR CORONA AND THE INTERPLANETARY SPACE

H. Önel, G. Mann & E. Sedlmayr

RELATIVISTIC PARTICLE ACCELERATION IN A RECONNECTING CURRENT LAYER

A.V. Oreshina & B.V. Somov

CORONAL HEATING AND X-RAY EMISSION FROM A BEAM OF FAST ELECTRONS

J.A. Pollock & L. Fletcher

GEOMETRICAL AND PHYSICAL PROPERTIES OF SXR FLARE KERNELS

P. Preš and S. Kolomaň ski

DIAGNOSTICS OF MHD-OSCILLATION MODES OF A FLARING LOOP USING MICROWAVE OBSERVATIONS WITH HIGH SPATIAL RESOLUTION

V. E. Reznikova, V.M. Nakariakov, V.F. Melnikov & K. Shibasaki

DERIVATION THE PHYSICAL PARAMETERS OF A FLARE ON 19 JULY 1999 FROM THE H_A LINE USING A MODIFIED CLOUD METHOD

M.A. Semeida, A.A. Galal, M.A. Rassem & M. Sabry

ANALYSIS OF SELECTED RHESSI MICROFLARES

S. Stoiser, A.M. Veronig, J.C. Brown, J.M. McTiernan & A. Hanslmeier

EVOLUTION OF FLARING PLASMA COMPONENTS ON DIAGNOSTIC DIAGRAMS

J. Sylwester, B. Sylwester, K.J.H Phillips & A. Kepa

WAVE PHENOMENA ASSOCIATED WITH THE X3.8 FLARE/CME OF 17-JAN-2005

M. Temmer, A. Veronig, B. Vršnak, J. Thalmann & A. Hanslmeier

THE INFLUENCE OF THE ELECTRON POWER DISTRIBUTION ON THE EXCITATION EQUILIBRIUM OF THE IONS IN THE SOLAR CORONA

D. Tóthová & E. Dzifčák

PROBLEM OF THE RETURN CURRENT IN ENERGY DEPOSIT IN FLARES

M. Varady, M. Karlický & J. Kašparová

THE EFFECT OF A SELF-INDUCED ELECTRIC FIELD ON ELECTRON BEAM DIFFERENTIAL SPECTRA IN FLARING ATMOSPHERES

V.V. Zharkova & M. Gordovsky

Poster Session 5: Solar Wind: From the Corona to the Heliosphere

ON THE EARTH'S PLASMA SHEET RESPONSE TO THE MAGNETIC TURBULENCE IN THE SOLAR WIND

I. Dorotovič & Z. Vörös

LANGMUIR WAVES EMISSION FROM THE ELECTRON BEAM WITH DIFFUSE BOUNDARIES MOVING IN PLASMA

K.S. Musatenko & I.O. Anisimov

ORIGIN OF LONG-PERIOD ALFV EN WAVES IN THE SOLAR WIND

T.V. Zaqarashvili & G. Belvedere

Poster Session 6: Coronal Mass Ejections and Space Weather

INTERMEDIATE-TERM PERIODICITIES IN SOME SOLAR ACTIVITY INDICES DURING CYCLE 23

T. Ataç, A. Özgüç & J. Rybak

QUASI-BIENNIAL OSCILLATIONS IN THE N-S ASYMMETRY OF SOLAR ACTIVITY

O.G. Badalyan, V.N. Obridko & J. Šykora

RECURSIVE NARROWCMES WITHIN A CORONAL STREAMER

A. Bemporad, A.C. Sterling, R.L. Moore & G. Poletto

CME MODELING: THE *A POSTERIORI* APPROACH

E. Chané, S. Poedts & B. van der Holst

INFLUENCE OF LOCAL GEOMAGNETIC VARIATIONS OF SOLAR ORIGIN ON PERSONS WITH A DIFFERENT BLOOD PRESSURE DEGREE

S. Dimitrova

SOLAR DIFFERENTIAL ROTATION AND PROPERTIES OF MAGNETIC CLOUDS

K. Georgieva, B. Kirov, E. Gavruseva & J. Javaraiah

A SERIES OF COMPACT FLARES WITH AN ASSOCIATED CME

C.P. Goff, L. van Driel-Geszrelyi, J.L. Culhane, S.A. Matthews, L.K. Harra, P. Démoulin, C.H. Mandrini & H. Kurokawa

TRIGGERING CMES BY MAGNETIC FOOT POINT SHEARING: A PARAMETER STUDY

C. Jacobs, S. Poedts & B. van der Holst

JIS - THE JOINT INFORMATION SYSTEM

I. Kienreich, A. Hanslmeier, P. Palle, & A. Sosa

PARTICLE ACCELERATION ASSOCIATED WITH INTERACTING CORONAL MASS EJECTIONS

N.J. Lehtinen, S. Pohjolainen, E. Valtonen, K. Huttunen-Heikinmaa & A.E. Hillaris

MHD-MODELING OF THE PROPAGATION OF A CORONAL MASS EJECTION

P. Pagano, F. Reale, S.Orlando & G. Peres

RESONANT COUPLING OF SOLAR GLOBAL OSCILLATIONS TO THE SOLAR ATMOSPHERE

B. Pintér

DISAPPEARING TRANSEQUATORIAL LOOPS AND CORONAL MASS EJECTIONS

S. Pohjolainen, N. Vilmer, J.I. Khan & A.E. Hillaris

A CORONAL MASS EJECTION ON 05 FEBRUARY 2005: RADIO, EUV AND VISIBLE LIGHT OBSERVATIONS

A. Raoult-Barbezat & K.-L. Klein

TRANSIENT AMPLIFICATION OF DISTURBANCES IN THE SOLAR ATMOSPHERE: A MECHANISM FOR CME INITIATION?

B.M. Shergelashvili, S. Poedts & A.D. Pataraya

TEMPORAL AND SPATIAL DYNAMICS OF CME-RELATED SOLAR STRUCTURES FROM EUV OBSERVATIONS WITH THE CORONAS-F/SPIRIT AND SOHO/EIT TELESCOPES

V. Slemzin, S. Kuzin & S. Bogachev

ON THE INTERNAL STRUCTURES OF CORONAL MASS EJECTIONS

D. Tripathi & G. Stenborg

List of Participants