

---

# — List of poster papers —

## LIST OF POSTER PAPERS

- P 1:** Christian Doppler (1803 – 1853): an Austrian scientist  
*M. Firneis*
- P 2:** Austrian astronomy today: a research initiative in stellar astrophysics  
*M. Breger, E. A. Dorfi, J. Hron, K. G. Strassmeier, W. W. Weiss, H. Oberhummer, A. Hanslmeier, G. Lustig, H. J. Schober*
- P 3:** The Kuffner public observatory in Vienna  
*P. Habison, E. Krebs*
- P 4:** Inclination dependence of the mean spectral line shapes of RS CVn stars as evidence for polar spots  
*A. P. Hatzes, S. S. Vogt, T. F. Ramseyer, A. Misch*
- P 5:** Maximum Entropy spot mapping with simultaneous geometrical and orbital parameter fitting for contact binaries  
*P. D. Hendry*
- P 6:** Doppler imaging by the Mean Information Principle  
*S. V. Berdyugina*
- P 7:** Prospects of stellar tomographic imaging  
*S. Jankov*
- P 8:** A new tool for measuring stellar magnetic fields  
*J. Babel, D. Queloz, P. North, M. Mayor*
- P 9:** Fourier analysis of time-variable line profiles as a tool to evaluate latitudinal differential rotation  
*A. F. Lanza, M. Rodonò*
- P 10:** The interpretation of two-dimensional Fourier analysis of line-profile series  
*Jinxin Hao*
- P 11:** On the stability of starspot modelling. I.  
*Zs. Kóvári*
- P 12:** On the stability of starspot modelling. II. Counteractions between spot parameter determination and inclination  
*Zs. Kóvári*

- P 13:** Synthetic light curves of spotted stars: unique or not unique?  
*Z. Eker*
- P 14:** Light curve synthesis of eclipsing cataclysmic binaries  
*I. B. Bíró*
- P 15:** A method for determining spot temperature  
*D. Kjurkchieva*
- P 16:** Stellar temperatures from line-depth ratios: the influence of macroscopic velocity fields  
*M. J. Stift, K. G. Strassmeier*
- P 17:** Using TiO spectroscopy to further constrain Doppler imaging  
*D. O'Neal, J. E. Neff, S. H. Saar*
- P 18:** TiO features in field K and M dwarfs. The relationship between  $\text{TiO}\lambda 7055\text{\AA}$  and  $T_{\text{eff}}$   
*M. Zboril, P. B. Byrne, W. R. J. Rolleston, J. J. L. Douglas*
- P 19:** Broad-band photometric colours versus  $T_{\text{eff}}$   
*P. J. Amado, P. B. Byrne*
- P 20:** The diagnostic value of phase diagrams derived from time-series of spectra of non-radially oscillating stars  
*J. Telting, Coen Schrijvers*
- P 21:** Polarimetry: a handle on internal structure in point sources  
*J. Tinbergen*
- P 22:** AnyPol: a new polarimeter at Limber Observatory  
*D. McDavid*
- P 23:** Diffraction-limited speckle masking observations of the Mira variable R Cas with the 6-m SAO telescope  
*K.-H. Hofmann, Y. Balega, M. Scholz, G. Weigelt*
- P 24:** Speckle imaging of the surface of Alpha Orionis  
*V. A. Klückers, M. G. Edmunds, N. J. Wooder, R. Morris*
- P 25:** Closure phase observations of surface variability on  $\alpha$  Orionis  
*R. W. Wilson, V. S. Dhillon, C. A. Haniff, J. E. Baldwin*
- P 26:** Speckle-masking imaging of bright points (moustaches)  
*C. Denker, C. R. de Boer, F. Kneer*
- P 27:** Limits on the surface differential rotation of rapidly rotating stars and implications for polar spots  
*Ch. M. Johns-Krull*
- P 28:** Detection of strong magnetic fields on M dwarfs  
*Ch. M. Johns-Krull, J. A. Valenti*
- P 29:** Models of spottedness of red dwarf stars: large but not numerous high-latitude spots or wide heterogeneous equatorial bands?  
*I. Yu. Alekseev, R. E. Gershberg*
- P 30:** Active longitudes of  $\sigma$  Gem: another “flip-flop”  
*L. Jetsu*

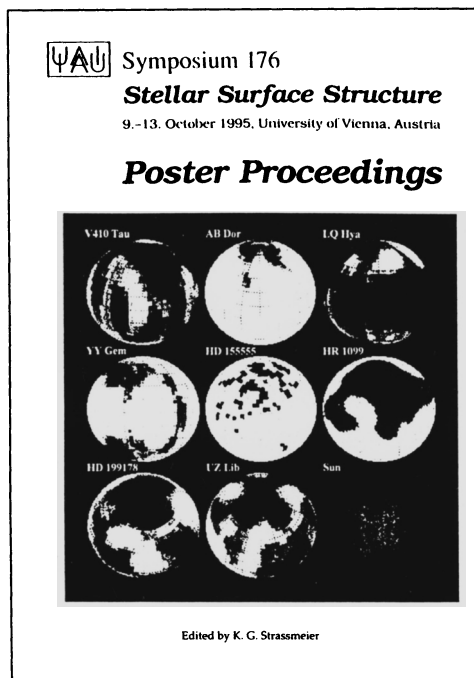
- P 31:** A spot model of the W-UMa system AW Virginis  
*P. G. Niarchos, M. Hoffmann, H. W. Duerbeck*
- P 32:** A long-term program to observe Algol binaries in the infrared  
*C. Lázaro, M. J. Arévalo, E. Antonopoulou, I. G. Martínez-Pais*
- P 33:** Is HD 3651 entering a “Maunder minimum” phase?  
*R. A. Donahue, S. L. Baliunas, W. H. Soon, F. M. McMillan*
- P 34:** Long-term spot evolution and activity cycle on the chromospherically active binary system AR Lac  
*A. F. Lanza, I. Pagano, M. Rodonò, S. Catalano*
- P 35:** Long-term photometric behavior of active, early G-type dwarfs  
*K. Stępień, E. Geyer*
- P 36:** Analysis of 1988-light curves of II Peg and the search for a spot-activity cycle  
*D. Kjurkchieva, D. Marchev*
- P 37:** Long-term photometric variations of the active RS CVn binaries DM UMa and II Peg  
*S. Mohin, A. V. Raveendran, M. V. Mekkaden*
- P 38:** Doppler images of II Peg and YY Gem  
*A. P. Hatzes*
- P 39:** Surface structure on DF Tau  
*Y. C. Unruh, A. Collier-Cameron, E. Guenther*
- P 40:** Doppler imaging of IN Comae: two possible rotation periods  
*B. Hubl, K. G. Strassmeier*
- P 41:** Optical monitoring of BD+8°102 – an extremely variable, rapidly rotating, K star  
*B. J. Kellett, Ch. Lloyd, D. Kilkeny, R. M. Robb*
- P 42:** A photometric and spectroscopic analysis of the active-chromosphere star GT Muscae  
*K. Murdoch, L. C. Watson, J. B. Hearnshaw, A. C. Gilmore, P. M. Kilmartin*
- P 43:** Modelling the ultra-fast rotators in young star clusters  
*S. Barnes, S. Sofia*
- P 44:** A possible relationship between starspot temperature deficit and surface gravity  
*S. H. Saar, D. O’Neal, J. E. Neff*
- P 45:** Spot temperatures in binaries with two active components: BY Dra and ER Vul  
*K. Oláh, Zs. Kóvári*
- P 46:** Line asymmetries in the metal-poor star HD 140283  
*C. Allende Prieto, R. J. García López, D. Lambert, B. Gustafsson*
- P 47:** The impact of granulation on the line formation  
*D. Kiselman*

- P 48:** Numerical simulations of surface convection in solar-type stars  
*B. Freytag, M. Steffen*
- P 49:** Area and intensity distribution in solar granulation  
*J. Hirzberger, A. Hanslmeier, J. A. Bonet, M. Vázquez*
- P 50:** Solar line bisectors in the infrared  
*K. Puschmann, A. Hanslmeier, S. K. Solanki*
- P 51:** Small scale horizontal magnetic fields in the solar photosphere  
*K. D. Leka, B. W. Lites, A. Skumanich, V. Martínez Pillet, T. Shimizu*
- P 52:** Li, Na, K and H $\alpha$  in a Sunspot  
*D. Barrado y Navascués, E. De Castro, R. J. García López, J. Sánchez Almeida, B. Montesinos*
- P 53:** Solar torsional oscillations due to magnetic quenching of the Reynolds stress  
*M. Kücker, G. Rüdiger*
- P 54:** The solar magnetic cycle structure  
*E. E. Benevolenskaya*
- P 55:** Mapping invisible features of the large-scale magnetic field distribution beyond the solar disk  
*D. I. Ponyavin*
- P 56:** Spots among early F-type stars: the case of  $\gamma$  Doradus variables  
*F. M. Zerbi, R. Garrido*
- P 57:** Multi-element abundance imaging of the Ap star  $\epsilon$  UMa  
*J. Babel, J.-F. Donati, J.-F. Gonzalez*
- P 58:** Ap-star mapping: Fe and Cr abundance distribution on the surface of HD 153882  
*T. Ryabchikova, R. Kuschnig, N. E. Piskunov, V. Pavlova*
- P 59:** Ap-star mapping: He, Mg, Si, and Fe surface distributions on the CP2 star CU Virginis  
*R. Kuschnig, T. Ryabchikova, N. E. Piskunov, W. W. Weiss*
- P 60:** On the magnetic field of  $\beta$  Coronae Borealis  
*G. A. Wade*
- P 61:** Analysis of the Lithium spectral region in  $\beta$  Coronae Borealis in the years 1993–1995  
*M. Hack, N. Polosukhina, F. Castelli, V. Malanushenko*
- P 62:** Element diffusion in atmospheres of CP stars  
*A. Aret, A. Sagar*
- P 63:** Modeling of chemical anomalies of Am-star  
*I. S. Savanov, S. V. Berdyugina*
- P 64:** Do the physical properties of Ap binaries depend on their orbital parameters?  
*J. Budaj*

- P 65:** On the nature of the Am phenomenon and tidal mixing in binaries.  
I. Orbital periods and rotation  
*J. Budaj*
- P 66:** A new model for peculiar Helium stars  
*R. Steinitz, U. Goldstein*
- P 67:** The very strong magnetic field of the He-rich star HD 37776  
*I. I. Romanyuk, V. G. Elkin, G. A. Wade, J. D. Landstreet, D. A. Bohlender*
- P 68:** Starspot and chromospheric activity of ER Vul in August–September 1991  
*K. Oláh, Zs. Kővári, E. F. Guinan*
- P 69:** Mg II h & k line diagnostics for IM Peg  
*K. Oláh, D. Marik, R. C. Dempsey, E. Budding*
- P 70:** Short-term Mg II flux variations in  $\alpha$  Tauri (K5 III): results from recent IUE data sets  
*M. Cuntz, B. D. Deeney, A. Brown, R. E. Stencel*
- P 71:** Ultraviolet intensity variations of the RS CVn variable  $\sigma$  Geminorum  
*Ø. Elgarøy, O. Engvold, P. Joraas*
- P 72:** Excess H $\beta$  emission in five chromospherically active binaries  
*D. Montes, M. J. Fernández-Figueroa, E. De Castro, M. Cornide*
- P 73:** Time series analysis of H $\alpha$ , He I and Na lines of a very active T Tauri star  
*J. F. Gameiro, M. T. V. T. Lago*
- P 74:** Active Me “dwarfs”: main-sequence of pre-main sequence?  
*E. R. Houdebine*
- P 75:** H $\alpha$  line-profile variations of the two active binary systems AG Dor and UX For  
*A. Washüttl, K. G. Strassmeier*
- P 76:** H $\alpha$  spectra of selected ROSAT active-chromosphere stars from Mt John University Observatory  
*L. C. Watson, J. B. Hearnshaw, A. C. Gilmore, P. M. Kilmartin*
- P 77:** OP And — an interesting chromospherically active K giant  
*R. K. Konstantinova-Antova, M. M. Ivanov, A. P. Antov*
- P 78:** Spot activity on the RS CVn system  $\zeta$  And as observed from the He I 10830 Å and Ca II H lines  
*A. G. Shcherbakov, M. J. Fernandez-Figueroa, F. Martin-Parra, E. De Castro, M. Cornide, I. Tuominen, I. V. Ilyin*
- P 79:** Spot activity of the RS CVn system  $\lambda$  And as observed in the He I 10830 Å line  
*A. G. Shcherbakov*
- P 80:** Coronal structure in Capella  
*A. K. Dupree, N. S. Brickhouse*

- P 81:** The surface activity and the binary effects in Capella's atmosphere  
*M. M. Katsova*
- P 82:** The outer atmosphere of the active component of Capella based on an analysis of new DEM distribution  
*K. V. Getman, M. M. Katsova*
- P 83:** The spatial structure of the AR Lac corona from ASCA observations  
*M. Siarkowski*
- P 84:** Observations of FeXXI on the RS CVn star HR 1099: deducing the coronal properties  
*R. D. Robinson, V. S. Airapetian, S. P. Maran, K. G. Carpenter*
- P 85:** Spots, plages, and coronal X-ray sources on SV Cam: results from a multi-wavelength campaign  
*A. Hempelmann, A. P. Hatzes, M. Kürster, L. Patkós*
- P 86:** Rotationally modulated X-ray emission on the young star P 1724?  
*R. Neuhäuser, Th. Preibisch, J. M. Alcalá, J. H. M. M. Schmitt*
- P 87:** Coronal structure in CF Tuc  
*M. Kürster, J. H. M. M. Schmitt*
- P 88:** Detection of a large X-ray flare on the RS CVn binary HU Virginis  
*M. Endl, K. G. Strassmeier, M. Kürster*
- P 89:** Simultaneous observations of dMe flare stars with the decametric arrays in Nancay and Kharkov  
*M. Abada-Simon, E. P. Abranin, M. Aubier, L. L. Bazelyan, L. Denis, V. N. Mel'nik, P. Zarka, R. Gershberg, I. Yu. Alekseev*
- P 90:** Coronal loops in flare stars: heating by resonant MHD absorption  
*D. J. Mullan, M. Johnson*
- P 91:** Acoustic heating in Procyon: comparison of theory with EUVE data  
*D. J. Mullan, Q. Q. Cheng*
- P 92:** A dividing line between dM and dMe stars: X-ray surface fluxes  
*D. J. Mullan, T. A. Fleming, J. H. M. M. Schmitt*
- P 93:** Observation of prominence or flare-like activity in the B2e star  $\mu$  Cen  
*G. J. Peters*
- P 94:** Coronal mass ejections in W UMa-type binaries  
*I. Pustynnik*
- P 95:** Wind, accretion and spots of the T Tauri star SU Aurigae  
*P. P. Petrov, E. Gullbring, G. F. Gahm, K. Loden, I. Ilyin, I. Tuominen, T. Hackman*
- P 96:** Variability of  $\epsilon$  Orionis resonance lines: variegated disc  
*L. Sapar, A. Sapar*
- P 97:** The structure of the outer atmospheres of cool giant stars  
*N. S. Komarov, T. V. Shevchuk*
- P 98:** Influence of rotation on dust driven winds  
*E. A. Dorfi, S. Höfner*

- P 99:** Surface magnetic fields and stellar wind variability in O-type stars  
*H. F. Henrichs, L. Kaper, J. S. Nichols, D. Bohlender, H. Cao, K. Gordon, G. Hill, Y. Jiang, I. Kolka, J. E. Neff, J. H. Telting*
- P 100:** X-ray emission from magnetically confined winds in Ap-Bp stars  
*J. Babel, T. Montmerle*
- P 101:** Hydrodynamical model atmospheres: convection and line formation in the Sun  
*H.-G. Ludwig, M. Steffen*
- P 102:** Temporal variations in solar chromospheric modeling  
*E. Avrett, P. Höflich, H. Uitenbroek, P. Ulmschneider*
- P 103:** Inclinations of rotation axes to orbital planes in binary systems of F, G, and K spectral types  
*R. Glebocki, A. Stawikowski*



*Stellar Surface Structure*

## Poster Proceedings

Published by:

*Institut für Astronomie  
 Universität Wien  
 Türkenschanzstr. 17  
 A-1180 Wien, Austria  
 (editor: K. G. Strassmeier)*

240 pages, A4, softbound, color cover, ISBN 3-901617-01-9 (1995). Order from: [iau@astro.ast.univie.ac.at](mailto:iau@astro.ast.univie.ac.at) or write to above address. Price per copy is 350.- ATS including shipping and handling.