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## Session on Solar Neutrinos and Models

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| ALEXEYEV | Evgenii | Search for solar flare neutrinos at the Baksan INR underground scintillation telescope (with L.N. Alexeyeva, A.E. Chudakov, I.V. Krivosheina) |
| BONETTI | Silvia | BOREX : a future solar neutrino experiment at LNGS (with the Boron Solar neutrino Collaboration) |
| BOUQUET | Alain | WIMPs in Stars : an analytical approach (with J. Kaplan,F. Martin, G. Raffelt, P. Salati, J. Silk) |
| BOUQUET | Alain | WIMPs and solar evolution codes (with Y. Giraud-Héraud,J. Kaplan,F. Martin,C. Tao,S. Turck-Chièze) |
| CHERRY | Michael | Solar neutrino backgrounds : atmospheric effects |
| DZIEMBOWSKI | W.A. | Solar model from Helioseismology and the Neutrino flux problem (with A. Pamyatnykh and R. Sienkiewicz) |
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| FAULKNER | John | WIMPs in the Sun and other stars |
| FINZI | Arrigo | Non-Baryonic matter from Halo and the solar neutrino problem (with A. Harpaz) |
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| GEROYANNIS | Vassilis S. | Rotating Viscopolytropic Stellar Models |
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| HAUBOLD | Hans J. | Fourier spectrum analysis of the solar neutrino capture rate (with E. Gerth) |
| KOCHAROV | Grant E. | 1) $^{3}$He isotope and the solar neutrino puzzle<br>2) Cosmic ray modulation during the Maunder minimum<br>3) Increased counting rates in Davis' experiment and nonstationary processes in the Solar Substance<br>(with G. Kovaltsov, I. Usoskin) |
| MAK | Hay Boon | The Sudbury Neutrino Observatory |
| MOREL | Pierre | Updated stellar evolution codes and the standard solar model (with J. Provost, G. Berthomieu) |

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| NOELS | Arlette | Galactic cosmions and solar models |
| PLAGA | Rainer | Violations of the Pauli principle and the interior of the Sun. |
| RAISBECK | Grant | Detection of $^7$Be neutrinos from a lithium solar neutrino detector |
| RAYCHAUDHURI | Probhas | Time variation of solar neutrino flux and its implication in stellar structure |
| SCHROEDER | Norman | The Molybdenum - Technetium Solar Neutrino Experiment (with K. Wolfsberg, D. Rokop). |
| TURCK-CHIEZE | Sylvaine | On the accuracy of solar modelling (with M.Cassé) |
| ZATSEPIN | George | Present status of Baksan gallium detector. |

## Session on Helioseismology and Diffusion

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| ANGUERA | Montserrat | An attempt to identify low l - low n solar acoustic spectrum (with P.L. Pallé, F. Perez, T. Roca Cortes) |
| APPOURCHAUX | Thierry | Observation of low-degree solar modes in intensity fluctuation (with B. Andersen) |
| APPOURCHAUX | Thierry | Conceptual design of an instrument dedicated to low-l and low-frequency solar modes observation |
| BALMFORTH | Neil | Mixing-length theory and the excitation of solar acoustic oscillations (with D.O. Gough) |
| BEL | Nicole | On the influence of the magnetic field on the solar oscillations |
| BROWN | Timothy M. | An inverse method for p-mode scattering measurements. |
| CACCIANI | Alessandro | Use and Performance of the Magneto-Optical Filter for low-l mode measurements (with D. Ricci and P. Rosati) |
| COX | Arthur N. | Period and stability of solar g-modes |
| DELACHE | Philippe J. | Wavelet analysis of long term solar variability |
| DZIEMBOWSKI | Wojciek | Magnetic field in the Sun's interior from oscillation data (with P.R. Goode) |
| GABRIEL | Maurice | The l dependent part of $D_{nl}$ and the structure of the solar core |
| GOUGH | Douglas O. | Sensitivity of solar eigenfrequencies to the age of the Sun (with E. Novotny). |

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| HILL | Frank | Mapping flows in the Solar convection zone using oscillation ring diagrams. |
| JEFFERIES | Stuart | Rotational splitting of the low degree solar p-modes |
| KOSOVICHEV | Alexander | Using helioseismological data to probe chemical composition in the solar core. |
| LABONTE | Barry | Acoustic Imaging Through the Sun (with D. Braun and T. Duvall) |
| LAVELY | Eugene | Testing mixing length theory with helioseismology. |
| LAVELY | Eugene | The Influence of Gary Glatzmaier's Convective Flow model on Solar Oscillations (with M. Ritzwoller) |
| PALLE | Pere L. | Variations of the low l solar acoustic spectrum correlated with solar cycle (with C. Regulo, T. Roca Cortes) |
| PROVOST | Janine | Nonequidistent spectrum of gravity modes (with G. Berthomieu, E. Gavryuseva, W. Gavryusev). |
| REGULO ROUEZ | Clara | Splitting of p-modes of low degree |
| RHODES | Edward J. | Evidence for degree-dependent variations in the frequency splittings of solar sectoral p-modes (with A. Cacciani, S. Korzennik) |
| ROCA CORTES | Teodoro | The low frequency solar velocity spectrum (with P. Palle). |
| THOMPSON | Michael | Solar rotational splitting measurements (with S. Tomczyk) |
| YERLE | Raymond | Limb darkening Oscillations : Solar and Terrestrial |
| YIOU | Françoise | Cosmogenic $^{10}$Be as a probe of time variations in solar activity |
| ZHUGZHDA | Yuzef | 1) Observations of intensity fluctuations of low-1 modes<br>2) Seismology on space observatory coronas (with N. Lebedev and I. Kopaev)<br>3) On the possibility of 160-min resonance oscillations in the earth atmosphere |

## Session on Convection, Dynamo and Transport

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| ALLKOFER | Otto Claus | First results from the HEGRA project |
| ARTZNER | Guy | Solar photographic astrometry |
| BALLESTER | Jose Luis | Periodicities and asymmetries in solar activity (with G. Vizoso) |
| BISNOVATYI-KOGAN | Gennadii | Angular velocity distribution in convective regions |

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| BOCHSLER | Peter | The abundance of 3He in the solar wind - a constraint for models of the Solar evolution (with J. Geiss, A. Maeder) |
| BRANDENBURG | Axel | The nonlinear solar dynamo and differential rotation (with D. Moss,G. Rudiger,I. Tuominen). |
| RUSIN | V. | Large-scale distribution of the global magnetic field, green corona and prominences during an extended activity cycle (with V. Bumba and M. Rybansky) |
| BRUECKNER | Guenter | Intermediate-term solar periodicities : 100 to 500 days |
| CALLEBAUT | Dirk K. | 1) Generation of magnetic fields in the sun. 2) Sunspot cycle from solar oscillations |
| CHAN | Kwing Lam | Differential rotation around Solar Convection Zone |
| CHRISTENSEN-DALSGAARD | J. | The depth of the Solar Convection Zone (with D. Gough and M. Thompson) |
| COPLAN | Michael | The abundance of minor ions in the solar wind and comparison to solar abundances (with K. Ogilvie, P. Bochsler, J. Geiss) |
| COURTAUD | Didier | The influence of metallicity on opacity coefficients (with G. Damamme,E. Genot,M. Vuillemin, S. Turck-Chièze) |
| DÄPPEN | Werner | The equation of state of the solar interior : a comparison of results from two competing formalisms (with Y. Lebreton, F. Rogers) |
| DERMENDJIEV | Vladimir | Solar activity in the past and the problem of solar dynamo (with Y. Shopov, G. Buyukliev) |
| DEUBNER | Franz-L. | Comment on Solar Convection |
| DONATI | J.F. | Zeeman-Doppler imaging : a new option for magnetic field measurement in active solar-type stars (with M. Semel, F. Praderie) |
| FOING | Bernard | Probing stars with magnetic activity signatures (with S. Char and S. Jankov) |
| FORESTINI | Manuel | New constraints on the solar Li and Be |
| GRANDPIERRE | Attila | Explosive convection at the solar core |
| KOTOV | Valery A. | Pulsation of the sun as a probe of 22-year cycle and central solar core (with T. Tsap). |
| LIPUNOV | Vladimir | Magnetic field inside the sun and magnetic properties of collapsed stars |
| LUSTIG | Günter | Solar meridional plasmas motions from 1982 until 1986 (with H. Wöhl) |

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| MERRYFIELD | William | Azimuthal convective rolls and the subsurface magnetic field |
| MONTESINOS | Benjamin | Magnetic field pattern and transtion region activity. |
| MORROW | Cherrilynn | Determining solar asphericity by asymptotic inversion |
| RÄDLER | Karl-Heinz | On the non-axisymmetric magnetic field modes of the solar dynamo (with A. Brandenburg, I. Tuominen). |
| ROXBURGH | Ian W. | Mixing in the solar interior |
| RUSIN | V. | 1) Periodicities in the green corona (530.3 nm) brightness for the sun as a star (with J.Zverko) 2) Large scale development of the green corona and prominence occurences (with M. Rybansky) |
| SYLWESTER | Janusz | Possible scenarios for build-up of Calcium abundance differences in flares (with B.Sylwester, R. Bentley) |
| TOOTH | Patrick | A new test on nonlocal mixing-length theory (with D.O. Gough) |
| TSCHARNUTER | Werner M. | Instabilities in the Early Protosun |
| VIGNERON | Caroline | Angular momentum transport in pre-main sequence stars of intermediate mass (with C. Catala,E. Schatzman,A. Mangeney) |
| VUILLEMIN | Michel | Nouveaux calculs d'opacités spectrales |

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