

individual formulations. Thus there is a fundamental inconsistency (however small) between the opacities and equation of state quantities that are essential for pulsation analysis.

This problem could be removed if the opacity groups could provide the equation of state data that they used in construction of the opacity tables. Similarly, separate tables with opacity derivatives would give far more stable and self-consistent pulsation results if those derivatives are provided as primary quantities and not as derived by numerical differentiation from the supplied tables.

LIST OF POSTER PAPERS:

1. Atomic Data for Bound-Bound and Bound-Free Opacities of Hydrogen in a Strong Magnetic Field
N. Merani, J. Main, G. Wunner (Lehrstuhl für Theoretische Physik I, Ruhr-Universität Bochum)
2. Influence of Nonideal Effects of Dense Plasma on Solar Interior Opacity
G. Luo (Yunnan Observatory, Chinese Academy of Sciences, Kunming, P.R. China)
3. Low Temperature Rosseland Opacities
D.R. Alexander (Physics Department, Wichita State University, Wichita, KS 67260, U.S.A.)
4. Stellar Opacities for Very Low Mass Stars and Brown Dwarfs
Takashi Tsuji and Keiichi Ohnaka (Institute of Astronomy, The University of Tokyo, Mitaka, Tokyo, 181 Japan)
5. Low-Temperature Opacities Applied to Solar Calibrated Models
C. Neuforge (Institut d'Astrophysique de l'Université de Liège, 5 Avenue de Coïnte, B-4000 Liège, Belgium), J. Provost, G. Berthomieu, P. Morel (Department Cassini, Observatoire de la Côte d'Azur, BP 229, 06304 Nice Cedex 4, France)
6. Atomic Structure Calculations and New Los Alamos Astrophysical Opacities
N.H. Magee, J. Abdallah, Jr., R.E.H. Clark, J.S. Cohen, L.A. Collins, G. Csanak, C.J. Fontes, A. Gauger, J.J. Keady, D.P. Kilcrease and A.L. Merts (Theoretical Division, Los Alamos National Laboratory)
7. Critically Evaluated Data and Databases on Atomic Spectra-Energy Levels, Wavelengths, Transition Probabilities, Shape Parameters
J. Fuhr, D. Kelleher, W.C. Martin, A. Musgrove, J. Sugar and W.L. Wiese (National Institute of Standards and Technology (NIST), Gaithersburg, MD 20899, USA)
8. Analytic Fits for the Partial Photoionization Cross-Sections
D.G. Yakovlev (Ioffe Institute of Physics and Technology, St. Petersburg, Russia) and D.A. Verner (Kapteyn Astronomical Institute, Groningen, The Netherlands)
9. Atomic Data for Absorption Lines from the Ground Level at Wavelengths Longward of 228 Å
D.A. Verner and P.D. Barthel (Kapteyn Astronomical Institute, Groningen, The Netherlands) and

David Tytler (University of California, Dan Diego, USA)

10. Theoretical Atomic Parameters for Databases

Z. Rudzikas, P. Bogdanovich (State Institute of Theoretical Physics and Astronomy, A. Gostauto 12, 2600, Vilnius, Lithuania)

11. Lines of Ga II and Ga III in the Ultraviolet Spectrum of Peculiar B-type Stars

Frorella Castelli (CNR-GNA and Osservatorio Astronomico, Via G.B. Tiepolo 11, 34131 Trieste, Italy) and M. Parthasarathy (Indian Institute of Astrophysics, Bangalore 560034, India)

12. Oscillator Strengths for Zr I and Zr II and the Solar Abundance of Zirconium

P. Bogdanovich, Z. Rudzikas and G. Tautvai (State Institute of Theoretical Physics and Astronomy, Gostauto 12, 2600, Vilnius, Lithuania)

13. "Forbidden" Transitions in $5p^k$ ($k=1-5$) Configurations

E. Biemont (Research Director of the Belgian FNRS, Institut d'Astrophysique, Universite de Liege, 5, Avenue de Cointe, B-4000 Liege, Belgium), J.E. Hansen (Van der Waals-Zeeman Laboratorium, Universiteit van Amsterdam, NL-1018 XE Amsterdam, The Netherlands) and C.J. Zeippen (Observatoire de Paris, Section d'Astrophysique de Meudon, URA 173 et DAEC, F-92190 Meudon, France)

14. The Equation of State in the Chemical Picture: A Grand Canonical Approach

G. Luo (Yunnan Observatory, Chinese Academy of Sciences, Kunming, P.R. China)

15. On the Stark Broadening of NaIX Spectral Lines

Milan S. Dimitrijevic (Astronomical Observatory, Volgina 7, 11050 Beograd, Yugoslavia) and Sylvie Sahal-Brechot (Observatoire de Paris, 92195 Meudon, Cedex, France)

16. Stark Broadening of Al XI Spectral Lines

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L.C. Popovic and M.S. Dimitrijevic (Astronomical Observatory, Volgina 7, 11050 Belgrade, Yugoslavia)

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Alain Lesage (DASGAL Observatoire de Paris, Section d'Astrophysique de Meudon, 92195 Meudon, France)

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G. Alecian (Laboratoire d'Astrophysique Extragalactique et de Cosmologie - URA173 (CNRS, Observatoire de Paris, Universite de Paris VII, DAEC, Observatoire de Meudon, F-92195 Meudon Cedex, France) and J. Tully (Laboratoire G.D. Cassini, CNRS-URA1362, Observatoire de la Cote d'Azur, BP 229, F-06304 Nice Cedex 4, France)

20. Stellar Winds in A Type Supergiants

Eva Verdugo and Antonio Talavera (IUE Observatory, European Space Agency, P.O. Box 50727, 28080 Madrid, Spain)

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L.I. Mashonkina, N.N. Shimanskaya, and V.V. Shimansky (Kazan State University)

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Jiri Kubat (Astronomical Institute, Academy of Sciences of the Czech Republic, 251 65 Ondrejov, Czech Republic)

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24. The Vertical Oscillations of Thin Accretion Discs with the OPAL Opacities

R. Kanetake, M. Takeuti (Astronomical Institute, Tohoku University, Sendai 980 Japan) and J. Fukue (Astronomical Institute, Osaka Kyoiku University, Kasihara, Osaka 582 Japan)

25. Hydrodynamic Simulation of a Double-Mode Cepheid with the OPAL Opacities

M. Takeuti (Astronomical Institute, Tohoku University, Sendai 980, Japan), T. Ishida (Nishi-Harima Astronomical Observatory, Ohnadesan, Sayo-cho, Hyogo 697-53, Japan), and R. Takano (Faculty of Education, Fukushima University, Fukushima, Japan)

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J.O. Petersen (Niels Bohr Institute for Astronomy, Physics and Geophysics, Astronomical Observatory, Copenhagen)

27. BV Aquarii: A Double-Mode RR Lyrae Variable with Peculiar Period Ratio

Mikolaj Jerzykiewicz (Wroclaw University Observatory, Kopernika 11, 51-622 Wroclaw, Poland)

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37. A Photoionisation Computations Database

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