Stellar Atmosphere Modeling, Tübingen, Germany, April 8–12, 2002

MONDAY

09:00 - 09:15	Werner, Hubeny	Conference Opening
		Chair: Mihalas
09:15 - 10:15	Auer	Formal Solution: Explicit Answers (keynote talk)
10:15 - 10:55	Hubeny	Basic ALI in Plane-parallel Atmospheres and Formal Solvers (keynote talk)
	Coffee Break	
11:25 - 12:00	Werner	Model Photospheres with ALI (keynote talk)
12:00 - 12:35	Hubeny	Model Photospheres with ALI (keynote talk)
	Lunch Break	
		Chair: Werner
14:00 - 14:40	Hamann	Basic ALI in Moving Atmospheres (keynote talk)
14:40 - 15:20	Höflich	Basic ALI in Moving Atmospheres (keynote talk)
15:20 - 15:35	Korcakova	DFE Method in Moving Media
	Coffee Break	
16:00 - 16:15	Asensio Ramos	Radiative Transfer in Molecular Lines
16:15 - 16:30	Jeffery	Automated Analyses of Stellar Spectra
16:30 - 16:45	Kubat	A Computer Code for Calculation of NLTE Model Atmospheres Using ALI
16:45 - 17:30		Poster Summaries (1 minute – 1 transparency per poster)

TUESDAY

		Chair: Hubeny
09:00 - 09:45	Hillier	On the Solution of the Rate Equations (keynote talk)
09:45 - 10:30	Koesterke	Rate Equations with ALI (keynote talk)
	Coffee Break	
11:00 - 11:40	Dreizler	Temperature Correction Schemes (keynote talk)
11:40 - 12:20	Hauschildt	Temperature Correction Schemes (keynote talk)
12:20 - 12:35	Sapar	Compact and Handy FORTRAN Code SMART for Physics of Stellar Atmospheres
	Lunch Break	
		Chair: Hamann
14:00 - 14:15	Schweitzer	Using Superlevels to Calculate Molecular NLTE
14:15 - 14:30	Lentz	Time-dependent Moment Equation Solution for Supernova Light Curves
14:30 - 14:45	Ferland	The Ionizing Continuum from Theta 1 Ori C
14:45 - 15:30	Höflich	Parallelization (keynote talk)
	Coffee Break	
16:00 - 16:15	Baron	Parallelization Strategies for ALI Radiative Transfer in Moving Media
16:15 - 17:00	Hauschildt	Parallelization (keynote talk)
17:00 - 17:15	Srinivasa Rao	Reflection Effect in Close Binaries

WEDNESDAY

		Chair: Trujillo-Bueno
09:00 - 09:30	Auer	Insight into Multidimensional Transfer (keynote talk)
09:30 - 10:15	Fabiani Bendicho	Multi-Dimensional Radiative Transfer (keynote talk)
10:15 - 10:30	Heinzel	2D Radiative Transfer in Magnetically-Confined Structures
————	*Coffee Break*	*(Conference Photo)*
11:00 - 11:15	Steinacker	3D Radiative Transfer for Young Stellar Objects
11:15 - 11:30	Folini	A New Method for 3D Radiative Transfer with Adaptive Grids
11:30 - 12:15	Jørgensen	Molecular Opacities and Cool Star Atmospheres (keynote talk)
12:15 - 12:30	Bues	Cool Helium-rich White Dwarfs: Molecular Opacities

No Afternoon Sessions – Excursion (starts at 14:15)

THURSDAY

		Chair: Lanz
09:00 - 09:45	Mihalas	Radiation Hydrodynamics in Stellar Atmospheres (keynote talk)
09:45 - 10:30	Fokin	Some Aspects of Numerical Modeling of Pulsating Atmospheres (keynote talk)
————	*Coffee Break*	————
11:00 - 11:15	Avrett	Effect of Mass Flows on the Ionization Structure of the Outer Solar Atmosphere
11:15 - 11:30	Krticka	Modeling of Multicomponent Radiatively Driven Stellar Winds Using Newton-Raphson Method
11:30 - 11:45	Ludwig	Wanted: Best Method for Solving the Transfer Equation Multi-D Hydrodynamical Model Atmospheres!
11:45 - 12:30	Carlsson	Numerical Multi-D Radiation (Magneto-) Hydrodynamics (keynote talk)
————	*Lunch Break*	————
		Chair: Fabiani Bendicho
14:00 - 14:45	Stein	Radiation Transfer in 3D Numerical Simulations (keynote talk)
14:45 - 15:00	Gräfener	Hydrodynamic Model Atmospheres for Hot Stars
————	*Coffee Break*	————
15:30 - 16:15	Trujillo-Bueno	The Non-LTE Problem of the Second Kind (keynote talk)
16:15 - 17:00	Nagendra	Solutions of Polarized Line Transfer Equations (keynote talk)

FRIDAY

		Chair: Dreizler
09:00 - 09:15	Jordan	Four Numerical Approaches to Solve the Radiative Transfer Equations in Magnetized White Dwarf Atmospheres
09:15 - 09:30	Deetjen	Polarized Radiation Transfer – Practical Experience with the ALI Method
09:30 - 09:45	Ho	Atmospheres and Spectra of Magnetized Neutron Stars
09:45 - 10:30	Uitenbroek	Multi-level ALI With Partial Redistribution (keynote talk)
————	*Coffee Break*	————
11:00 - 11:15	Fluri	PRD Redistribution Matrix
11:15 - 11:50	Nahar	The Iron Project and NLTE Stellar Modeling
11:50 - 12:30	Rauch	Handling of Atomic Data (keynote talk)
————	*Lunch Break*	————
		Chair: Carlsson
14:00 - 14:45	Lanz	Handling of Atomic Data (keynote talk)
14:45 - 15:30	Alexander	Opacities of Molecules and Dust (keynote talk)
————	*Coffee Break*	————
16:00 - 16:30	Mihalas	Conference Summary

Poster Presentations

Aufdenberg	Spherical and Expanding Model Atmosphere Predictions for Interferometry
Bolick	NLTE Modeling of Lines in Expanding Shells of LPV's
Borysow	Simulation of Hot Methane Spectra
Braun	Density Functional Calculations for Atoms in Very Strong Magnetic Fields
García-Gil	Comparisons Between Observed and Computed Visible and Near-UV Spectra of Vega
Georgiev	2D NLTE code
Gusev	Infrared Radiative Cooling/Heating of the Terrestrial Mesosphere/Lower Thermosphere: Non-LTE Analysis of the CRISTA Limb Radiance Data
Gustafsson	A Grid of Model Atmospheres for Cool Stars
Haberreiter	Dominating Solar Opacity Sources in the Near UV
Hadrava	Limb Darkening and Line-Profile Variability in Eclipsing Binaries
Heber	Stellar Winds from sdB stars?
Herrero	Spectroscopic Analysis of Cyg OB2 Stars Using Unified Model Atmospheres
Homeier	Methane Opacities in T-dwarf Atmospheres
Jeffery	Computational Astrophysics Tools for the GRID
Kasparova	Time-Dependent Flare Models with MALI
Kimeswenger	Sakurai's Object - Problems or a Test Case for Atmosphere Modeling?
Kubat	Calculation of Temperature Using a Thermal Balance of Electrons
Landenberger-Schuh	Computation of Element Diffusion in NLTE Stellar Atmosphere Models
Lanz	A Grid of NLTE Line-blanketed Model Atmospheres
Martins	Line Blanketing Effects in Atmospheres of O stars
Morisset	Testing EUV Hot Stars Emission with Nebular Modeling of IR Lines
Nagel	AcDc – A New Code to Calculate the Vertical Structure of Accretion Disks
Nahar	Self-consistent Ab Initio Calculations for Photoionization and Recombination
Ramspeck	NLTE Spectral Analysis of Iron Group Elements in the Hot sdO-Star BD+28 4211
Richter	LTE Modeling of FeII and [FeII] Lines in Shocked Atmospheres of M Miras
Rutten	The Auer-Mihalas 1969 Hydrogen Star Revisited
Rutten	Radiative Transfer in Stellar Atmosphere for Grabs
Schmidt	Model Atmospheres of Massive Post-AGB Stars
Schweitzer	Putting Radiation Hydrodynamics into a Detailed Model Atmosphere Calculation
Semenov	Opacities for Protoplanetary Disks
Steiner	Multigrid Radiation Transfer Revisited
Tamanai	Optical Constants and Extinction Efficiency of Solid Materials
Thomas	Spectroscopic Consequences of Deviation from Spherical Composition Symmetry in Type Ia Supernovae
Unglaub	Diffusion Calculations with Mass Loss in Hot White Dwarfs and Subdwarfs
Urbaneja	Analysis of B Supergiants Revised: Plane-Parallel vs. Unified Models
Van Noort	2-Dimensional non-LTE Radiative Transfer in Cartesian, Cylindrical and Spherical Coordinates
Votruba	Rayleigh-Taylor Type Instabilities in Hot Star Winds