

SFB 591

SYMPOSIUM

"COSMIC PLASMA PHYSICS"

BOCHUM, OCTOBER 30-31, 2006

IN HONOUR OF KARL SCHINDLER
ON THE OCCASION OF HIS 75TH BIRTHDAY

October 30, 2006

Auditorium HNB

- 12.15 As Part of Physikalisches Kolloquium
M. Hesse
The inner workings of magnetic reconnection
- 13.15 **Lunch Break**
**The Meeting continues at
Veranstaltungszentrum Mensa, Ebene 04, Saal 3**
Chair: R.-J. Dettmar
- 14.30 V. Vasyliunas
The paradoxical role of the displacement current in cosmic plasmas
- 15.00 J. Birn
The role of entropy conservation and entropy loss in magnetospheric dynamics
- 15.30 D. Nickeler
Slow evolution of 2D magnetic potential fields in barotropic ideal MHD flows
- 16.00 **Coffee Break**
Chair: J. Birn
- 16.30 R.-J. Dettmar
Magnetic Fields in Galaxies
- 17.00 R. Schlickeiser
Inverse magnetic reconnection: Generation of magnetic fields by anisotropic particle distribution
- 17.30 J. Büchner
Anomalous resistivity - concept and new results

October 31, 2006 (Veranstaltungszentrum Mensa, Ebene 04, Saal 3)

Chair: G. S. Lakhina

- 09.00 M. Kiessling
Cosmic plasma physics and the secrets of the universe
- 09.30 J. Dreher
FlareLab: A poor man's Solar mission
- 10.00 A. Otto
Kelvin-Helmholtz Modes and Magnetic Reconnection
- 10.30 **Coffee Break**
Chair: J. Büchner
- 11.00 G. S. Lakhina
Generation of kinetic Alfvén waves by velocity shears
- 11.30 G. Wunner
The cosmic background in nontrivial topology
- 12.00 R. Grauer
Open questions in Lagrangian turbulence
- 12.30 **Lunch Break**
Chair: M. Kiessling
- 14.00 L. Rastätter
Sun-to-Ionosphere Modeling at the Community-Coordinated Modeling Center (CCMC)
- 14.30 T. Wiegmann
Can we use nonlinear and selfconsistent models for data analysis?
- 15.00 K. Schindler
Closing Remarks