

Monday, 26.11.			
9.00	Shuttle Bus Departure from Hotel Schloss Eckberg		
9.30	Registration & Coffee		
10.00	Welcome and basic informations		
10.15-12.30	FUNDAMENTALS		
10.15	Antonio	Ferriz Mas	Gauss linking number and magnetic helicity
10.30	Krzysztof	Mizerski	Mean field dynamo mechanisms in highly conducting fluids
10.45	Basile	Gallet	An analytical example of the strong-field scaling regime for dynamo saturation
11.00	Koh	Takahashi	A novel modeling for massive stellar evolution with magnetism
11.15	Mouloud	Kessar	Large Scale vortices in tilted rotating convection
11.30	Daniel	Miller	Evolution of magnetic field structures in nonlinear MHD dynamos
11.45	Oleg	Kirillov	Singular diffusionless limits of double-diffusive instabilities in MHD
12.00	Dmitry	Sokoloff	Magnetic energy growth in the subcritical Kazantsev model
12.15	Sébastien	Galtier	Hall MHD turbulence and the solar wind
12.30-13.30	Lunch		
13.30-15.30	APPLICATIONS		
13.30	Yaroslav	Listratov	MHD heat transfer of liquid metals
13.45	Leo	Bühler	Experimental confirmation of additional magnetohydrodynamic pressure drop at junctions between electrically insulating flow channel inserts
14.00	Igor	Teplyakov	About different MHD-approximations in the simulation of the electrovortex flow
14.15	Thomas	Wondrak	Measurement of torsional and sloshing modes in Rayleigh-Benard convection using contactless inductive flow tomography
14.30	Ruslan	Khalilov	Determination of the level of magnesium in a titanium reduction reactor
14.45	Nicolas	Plihon	Plasma column rotation profile control using emissive electrodes
15.00	Petr	Jelinek	2D MHD simulations of oscillations excited by plasmoids during magnetic reconnection
15.15-15.45	Coffee Break		
15.45-17.30	DYNAMOS I		
15.45	Nathanaël	Schaeffer	Precessing spheres: flows and dynamo at low viscosity
16.00	Thierry	Alboussiere	Anisotropic dynamos
16.15	Jan	Simkanin	A transition from laminar to a turbulent dynamo
16.30	Petri	Käpylä	Semi-global convection-driven dynamos with Kramers opacity law
16.45	Robert	Cooper	Subcritical convection driven dynamos at low Ekman number
17.00	André	Giesecke	Numerical Simulations for the DRESHDYN precession dynamo
17.15	Raul Alejandro	Avalos-Zúñiga	Exciting news from the disc dynamo experiment with liquid metal contacts
17.30	Departure to Schloss Eckberg		
18.30-20.30	Welcome Reception and Poster Session at Schloss Eckberg		
	Joris	Labarbe	Discretization of Navier-Stokes equations with spectral methods
	Fabian	Burmann	Towards a 2D acoustic travel time tomography in rotating flows
	Viktor	Klüber	Pressure-driven 3D liquid metal MHD flow in a dual-coolant lead lithium blanket
	Raul Alejandro	Avalos-Zúñiga	Experimental Prototype of an AC MHD generator
	Martin	Seilmayer	Symmetry Breaking of Azimuthal Magnetorotational Instability Caused by Thermal Boundary Conditions
	Christophe	Gissinger	Magnetically-driven oceans in Jovian moons
	Ilia	Kolesnichenko	Liquid metal flow in channel with helical magnetic field
	Paolo	Personnetaz	The role of fluid flow in heat and mass transport in Liquid Metal Batteries
	Franck	Plunian	Torsional Alfvén waves in a dipolar magnetic field: experiments and simulations
	Frank	Stefani	A Tayler-Spruit type model of a tidally synchronized solar dynamo
	Andris	Bojarevics	Sense or nonsense - Liquid Metal Batteries

Tuesday, 27.11.			
8.30	Shuttle Bus Departure from Hotel Schloss Eckberg		
9.00-12.30	DYNAMOS II		
9.00	Thomas	Gastine	Is there a stably-stratified layer in Jupiter? Some constraints from global dynamo models
9.15	Johannes	Wicht	Dynamo Action of Jupiter's Zonal Winds
9.30	Yue-Kin	Tsang	Determining the depth of Jupiter's dynamo region
9.45	Yori	Fournier	Non-linear non-localities in Babcock-Leighton dynamos, a solution to solar activity?
10.00	Mariangela	Viviani	Cyclic solutions and anti-solar differential rotation: can a Parker Dynamo Wave explain them?
10.15	Günther	Rüdiger	Dynamo action of magnetized Taylor-Couette flows
10.30-11.00	Cofee Break		
11.00-12.30	DYNAMO III		
11.00	Jörg	Warnecke	Understanding rotational dependence of stellar activity using MHD simulations of stellar dynamos and stellar coronae
11.15	David	Hughes	Dynamo action in rapidly rotating convection with no inertia
11.30	Paul	Bushby	Large-scale oscillatory dynamos in rotating plane layer convection: understanding the mean electromotive force
11.45	Sabrina	Sanchez	Probing the Earth's core dynamics through geomagnetic data assimilation
12.00	Alban	Potherat	Convection and magnetoconvection in a rotating tangent cylinder
12.15	Ludovic	Petitdemange	Simulations of convectively-driven stellar dynamos in a stratified spherical shell
12.30-13.30	Lunch		
13.30-15.00	LIQUID METAL BATTERIES		
13.30	Caroline	Nore	Electro-Vortex flow in Liquid Metal Batteries
13.45	Valdis	Bojarevics	Validation of the analytical criterion for MHD stability in aluminium cells and liquid metal batteries
14.00	Gerrit Maik	Horstmann	Interfacial wave dynamics in liquid metal batteries
14.15	Christian	Resagk	Instabilities of a liquid metal - electrolyte interface caused by local magnetic fields
14.30	Janis	Priede	Inherently fractal nature of the rolling metal pad instability threshold in rectangular cell
14.45-15.15	60TH BIRTHDAY OF GUNTER GERBETH		
14.45	Agris	Gailitis	
15.00	Sven	Eckert	Gunter Gerbeth - initiator of the MHD research in Dresden
15.30-16.00	Coffee Break		
16.00-18.00	Lab Tour		
18.00	Departure to Schloss Eckberg		
19.30-22.00	Dinner at Schloss Eckberg		

Wednesday 28.11.			
8.30	Shuttle Bus Departure from Hotel Schloss Eckberg		
9.00-12.30	TURBULENCE I		
9.00	Peter	Frick	MHD turbulence in spin-down flows of liquid metals
9.15	Itzhak	Fouxon	Intermittency and multifractality of growth of weak magnetic fields in compressible turbulence
9.30	Philipp	Grete	Correlations and energy transfer in compressible isothermal and adiabatic MHD turbulence
9.45	Maxim	Reshetnyak	Inverse and direct cascades in geostrophic turbulence
10.00	Rodion	Stepanov	Cross helicity sign reversals in the dissipative scales of magnetohydrodynamic turbulence
10.15	Melissa	Menu	Inverse cascade of magnetic helicity in MHD turbulence
10.30-11.00	Coffee Break		
11.00-12.30	TURBULENCE II		
11.00	Thomas	Boeck	Simulations of decaying MHD turbulence in a flat duct
11.15	Daniela	Weston	Effects of Turbulent Pumping and Turbulent Diffusion on Magnetic Buoyancy Instability in the Solar Tachocline
11.30	Manfred	Küker	The turbulent magnetic pressure in rotating convection
11.45	Kannabiran	Seshasayanan	Turbulent saturation of the dynamo instability
12.00	Enrico	Filippi	Anisotropic beta effect in Rotating Magnetoconvection study
12.15	Till	Zürner	Reconstruction of large-scale flow dynamics in turbulent Rayleigh-Benard convection
12.30-13.30	Lunch		
13.30-15.00	INSTABILITIES AND WAVES		
13.30	Dominique	Jault	Torsional waves in the Earth's core in the presence of topography at the boundaries
13.45	Ferran	Garcia Gonzales	Experiments and simulations on the magnetized spherical Couette problem
14.00	Marek Jerzy	Grądzki	The effect of weak magnetic and thermal diffusion on magnetic buoyancy instability
14.15	Jun	Chen	Parametric study of torus instability threshold
14.30	Todor	Kondic	Disruption of an Isolated Vortex by the Magnetic Flux Expulsion
14.45	Frank	Stefani	New axisymmetric helical magnetorotational instability in dissipative rotating flows with positive shear
15.00	End of Workshop		
15.15	Departure to Airport/Hotel/Station		