Tuesday 19 September

9:00  Sibylle Günter and Per Helander  Welcome
9:10  Shoichi Okamura (NIFS)  Japanese collaboration with MPPC
9:20  Andreas Burkert (München)  The puzzle of the filamentary interstellar medium, regulated by gravitational instabilities and stellar feedback
9:50  Stefanie Walch-Gassner (Köln)  The life-cycle of gas in the multi-phase interstellar medium
10:20 Coffee
10:40  Steve Tobias (Leeds)  Tutorial: Direct Statistical Simulation in Astrophysical Fluids and Dynamos
11:20  Hideyuki Hotta (Chiba University)  High resolution calculations of solar dynamo
11:50  Nishant Singh (MPS)  Role of shear and rotation on non-helically driven large-scale dynamos
12:20 Lunch
14:00  Breakout sessions

1. Magnetic reconnection and dynamos
   a. Pradeep Chitta: Solar coronal response to small-scale bi-directional plasma jets driven by magnetic reconnection
   b. William Fox: Comparison of MRX and space reconnection observations
   c. Hantao Ji: The coming FLARE facility in Princeton
   d. Joern Warnecke: Measuring magnetic helicity fluxes in global solar and stellar dynamo simulations

2. Turbulence, cosmic rays and galaxy formation:
   a. Stafanie Walch: How turbulent is the ISM?
   b. Christoph Pfrommer: Open problems for modelling cosmic rays in galaxy formation
   c. Eugene Churazov: Small-scale fluctuations of ICM properties and AGN Feedback
   d. Ildar Khabibullin: X-ray and SZ polarization due to pressure anisotropies in galaxy clusters

18:00  Reception with food and drinks at the conference venue
Wednesday 20 September

9:00  Li-Jen Chen (Univ. Maryland)  MMS observations of reconnection and comparison with theory
9:30  Susanna Capello (Padova)  Taylor theory predictions in comparison with RFP experiments
10:00 Coffee
10:30 Marco Velli (UCLA)  Solar Probe Plus - The next NASA mission to the Sun
11:00 Yi-Min Huang (PPPL)  Plasmoid instability in evolving current sheets
11:30 Fulvia Pucci (PPPL)  Magnetic reconnection at kinetic scales: from the trigger mechanism at ion scales to electron energization
12:00 Lunch
12:00 Young MPPC lunch
14:00 Breakout sessions

1. Dynamos, MRI and magnetic reconnection
   a. Fred Gent: Large- and small-scale dynamos and their interactions in galaxies
   b. Jiming Shi: Statistical study of current sheets in MRI-driven turbulence
   c. Jean-Mathieu Teissier: Higher-order MHD finite volume numerics
   d. Andre Giesecke: The precession dynamo at HZDR - Preliminary flow measurements and simulations
   e. Jonathan Ng (by A. Bhattacharjee): Integrating kinetic effects in large-scale fluid simulations

2. Fast particles and turbulence
   a. Ilija Chavdarovski: Higher-harmonic generation of EGAMs
   b. Philipp Lauber: Recent updates on EGAMs at ASDEX Upgrade
   c. YasushiTodo: Extension of the MEGA code with kinetic thermal ions

18:00 Public lecture by Volker Springel  Simulierte Universen: Ursprung und Schicksal unserer Milchstraße
   (Simulated universes: origin and destiny of our Milky Way)
Thursday 21 September

9:00 Paul Terry (UW Madison)  Tutorial: Stable Modes in instability-driven turbulence and transport

9:40 Alex Schekochihin (Oxford)  Unexpected behaviour of drift-wave turbulence near the stability threshold

10:10 Coffee

10:40 Pavlos Xanthopoulos (IPP)  Features and perspectives of gyrokinetic turbulence in stellarators

11:10 Masanori Nunami (NIFS)  Kinetic simulation studies for multi-species plasmas in helical systems

11:40 Bogdan Teaca (Coventry)  Universal properties of turbulence in magnetized plasmas

12:10 Lunch

14:00 Breakout sessions

1. Turbulence and MRI
   a. Kyle Caspary: Exploring the effect of conducting endcaps on Shercliff layer instability in the Princeton MRI Experiment and implications for the search for MRI
   b. Matthew Kunz: Kinetic magnetorotational turbulence and dynamo in a collisionless plasma
   c. George Mamatashvili: Nonlinear evolution of helical magnetorotational instability in magnetized Taylor-Couette flow
   d. Daniel Told: Beta dependence of heating in KAW turbulence

2. Reconnection in the laboratory
   a. Isabel Krebs (by VC): Self-organised magnetic states in tokamaks - low q_edge discharges
   b. Dmytro Meshcheriakov: Tearing mode seeding by external magnetic perturbations in AUG
   c. Valentin Igochine (if results are obtained in August): Sawtooth experiments
   d. Patricio Munoz: Simulations of turbulence in laboratory reconnection – hybrid and PIC code
   e. Adrian von Stechow (by W. Fox): Turbulence observations in guide-field laboratory reconnection

19:00 Bus from Hotel Europa to Kulturbahnhof

19:10 Dinner at KulturBahnhof

22:00 Bus back to Hotel Europa

Friday 22 September

9:00 Volker Springel  Magnetic fields and cosmic rays in cosmic structure formation

9:30 Rahul Kumar (Princeton)  Upstream magnetic structures in high-Mach-number Shocks

10:00 Coffee

10:30 Axel Könies (IPP)  Energetic particles in stellarators

11:00 Miriam Schneller (PPPL)  Linear and nonlinear EGAM dynamics

11:30 Christoph Pfrommer (Postdam)  The role of cosmic rays in galaxy formation

12:30 Close