



# RMHD 2024

## Monday, 24 June 2024

**Plenary Talk: I. Kolesnichenko. Vortex generation in the transit flow of liquid metal (09:00 - 09:40)**

**Plenary Talk: Nikitin A. The concept of the magnetomechanical approach in remote control of intermolecular interactions: from theory to practice (11:20 - 12:00)**

# Tuesday, 25 June 2024

**Plenary Talk: Ryapolov P. Magnetic fluids: the interaction between the dynamics and physical properties under external influences (09:00 - 09:40)**

**Plenary Talk: Ily'n A. Mathematical aspects of the theory of turbulent dynamo in isotropic stochastic flows (11:20 - 12:00)**

# Wednesday, 26 June 2024

**Plenary Talk: Yang J. Overview of the liquid metal MHD studies on fusion-related components at MFM lab (09:00 - 09:40)**

**Plenary Talk: Yankov G. Large eddy simulation of a mercury flow in one-sided heated tubes in a transverse magnetic field considering physical properties of the wall and the contact resistance on its inner surface (11:20 - 12:00)**

# Thursday, 27 June 2024

**Plenary Talk: Illarionov E. Machine Learning in Solar Physics (09:00 - 09:40)**

**Plenary Talk: Brestenský J. The fastest growing modes in magnetoconvection with anisotropic diffusivities in the Earth's fluid core (11:20 - 12:00)**