

Stars with a stable magnetic field: from pre-main sequence to compact remnants

August 28 - September 01, 2017

Masaryk University, Brno, Czech Republic

Magnetic fields play an important role in the evolution of all stellar objects, through their ability to influence and alter the angular momentum evolution, internal mixing, activity phenomena, surface abundances and mass-loss of stars. This research field benefits from new highly accurate measurements and numerical simulations, enabling stellar astrophysicists to take magnetic fields into account in most models of stellar structure and evolution. We want to bring together researchers from different fields where magnetic fields play an important role to join their efforts and discuss their common interests.

Main Topics of the Conference:

- â€¢ Characteristics of surface magnetic fields in early-type stars
- â€¢ Magnetic fields and the stellar structure and evolution
- â€¢ Magnetism, accretion and braking of PMS stars
- â€¢ Surface structure formation in the presence of magnetic field: connection with diffusion and accretion
- â€¢ Magnetic field origin and stability
- â€¢ Magnetically-confined winds
- â€¢ Stellar pulsations in the presence of global magnetic fields
- â€¢ Post main sequence evolution of early-type magnetic stars
- â€¢ Final phases of stellar evolution: magnetism in compact objects
- â€¢ The future of magnetic field measurements in hot stars

The registration is now open. The normal registration fee is 6000 CZK, the reduced fee for students is 3000 CZK and 1500 CZK for accompanying persons.

The proceedings of the conference will be published in the Contributions of the Astronomical Observatory SkalnatÃ© Pleso.

SOC:

- â€¢ Adela Kawka, AsU, Czech Republic
- â€¢ JiÅ™í KrtiÅ•ka, MU Brno, Czech Republic
- â€¢ Coralie Neiner, Observatoire de Paris, France
- â€¢ Mary Oksala, Observatoire de Paris, France
- â€¢ Stan Owocki, Univ. Delaware, USA
- â€¢ Ernst Paunzen (chair), MU Brno, Czech Republic
- â€¢ Veronique Petit (chair), Florida Institute of Technology, USA
- â€¢ Olga Pintado, CONICET, Argentina
- â€¢ Jose Pons, Universitat d'Alacant, Spain
- â€¢ Gregg Wade, RMC, Canada

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