

Workshop: Modelling of geophysical and stellar flows

Wolfgang Pauli Institute, Vienna

August 30 – August 31, 2023

Wednesday – 30 August 2023

- 09:30–10:10 Friedrich Kupka (WPI c/o U. Wien, FHTW): *A turbulent context*
- 10:10–10:50 Herbert Muthsam (U. Wien): *Resolution: towards turbulence in numerical simulations of stellar convection*
- 10:50–11:20 COFFEE BREAK
- 11:20–12:00 Gábor Kovács (Eötvös Loránd Univ., Budapest): *RHD for classical variables*
- 12:00–12:30 General discussion
- 12:30–14:00 LUNCH
- 14:00–14:40 Günter Houdek (U. Wien): *Mode physics of pulsating stars*
- 14:40–15:20 Felix Ahlborn (HITS, Heidelberg): *Non-local convection models in stellar evolution*
- 15:20–15:50 COFFEE BREAK
- 15:50–16:20 Teresa Braun (MPA, Garching): *Progress report on 1- and 3-equation models*
- 16:20–17:00 General discussion
- 17:00–18:00 Small group breakout session: opportunity to discuss in smaller groups

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- 09:30–10:10 Petri Käpylä (KIS, Freiburg): *Convective scale, overshooting, and subadiabatic layers in deep stellar convection zones - Insights from 3D LES*
- 10:10–10:50 Damian Fabbian (FHTW, WPI c/o U. Wien): *Stellar Atmospheres & Activity*
- 10:50–11:30 General discussion
- 11:30–13:00 LUNCH
- 13:00–14:30 General discussion
- 14:30–15:00 COFFEE BREAK

CLOSING EVENT

- 15:00–16:30 Vittorio Canuto (GISS/NASA): *My Life as a Scientist: 50+ Years at NASA-GISS*

(includes a short introduction, discussion, and closing of the workshop)