

Monday	Tuesday	Wednesday	Thursday	Friday
	Background Model Ocean Tides (M. Hart-Davis)	Stochastic Modeling of GRACE/GRACE-FO Data (M. Murböck)	Practical 3: GRACE-FO Data Analysis: Global Analysis of EWH Grid Data	The Future: Satellite Missions with Quantum Sensors (M. Weigelt)
	Background Model AOD1B (L. Shihora)	From Level-2 Spherical Harmonics to Level-3 Grid Data (E. Börgens)		Feedback NEROGRAV School and Discussions
	Practical 1: GRACE-FO Data Analysis: Spherical Harmonic Analysis	Practical 2: GRACE-FO Data Analysis: Filtering/De-Striping	Practical 4: GRACE-FO Data Analysis: Regional Analyses	
Lunch				
The Research Group NEROGRAV and Status GRACE-FO & Future SST Missions (F. Flechtner)	Visit of Technik Museum Speyer	Mass Change of the Oceans (M. Schindelegger)	Practicals Feedback and Q&A	
Special Aspects of GRACE-FO Level-1 Instrument Data (V. Müller)		Surface Loading in View of the Earth's Deformability (V. Klemann)	Gravimetry Data for Monitoring the Global Water Cycle and Comparisons with Climate Models (A. Eicker)	
From Level-1B Instrument Data to Level-2 Spherical Harmonics (R. Pail)		Mass Change of the Cryosphere (I. Sasgen)	GRACE/GRACE-FO Data for Model Assimilation and Service Applications (A. Springer)	
Dinner				
Ice Breaker		Wine Taste	SLR for Gravity Field Determination (B. Loomis)	

The spring school „New Refined Observations of Climate Change from Spaceborne Gravity Missions“ will educate a group of 31 Ph.D. students and junior scientists in state of the art satellite gravimetry data processing (e. g. spherical harmonic analysis, filtering/de-striping, global/regional analysis of grid data) and applications of mass transport data in Earth system sciences related with the global water cycle, the oceans, or the cryosphere. A look into the future of satellite gravimetry missions completes the program.

Lectures and practicals given by key members of the Research Group **NERO GRAV** will be augmented by selected topics presented by international experts:

- E. Börgens** (GFZ Potsdam), **A. Eicker** (HCU Hamburg), **F. Flechtner** (TU Berlin),
- M. Hart-Davis** (DGFI-TUM), **V. Klemann** (GFZ Potsdam), **B. Loomis** (JPL), **C. Mielke** (U Bonn),
- V. Müller** (AEI), **M. Murböck** (TU Berlin),
- R. Pail** (TU Munich), **I. Sasgen** (AWI),
- M. Schindelegger** (U Bonn),
- M. Schlaak** (TU Munich),
- L. Shihora** (GFZ Potsdam),
- A. Springer** (U Bonn),
- M. Weigelt** (DLR)

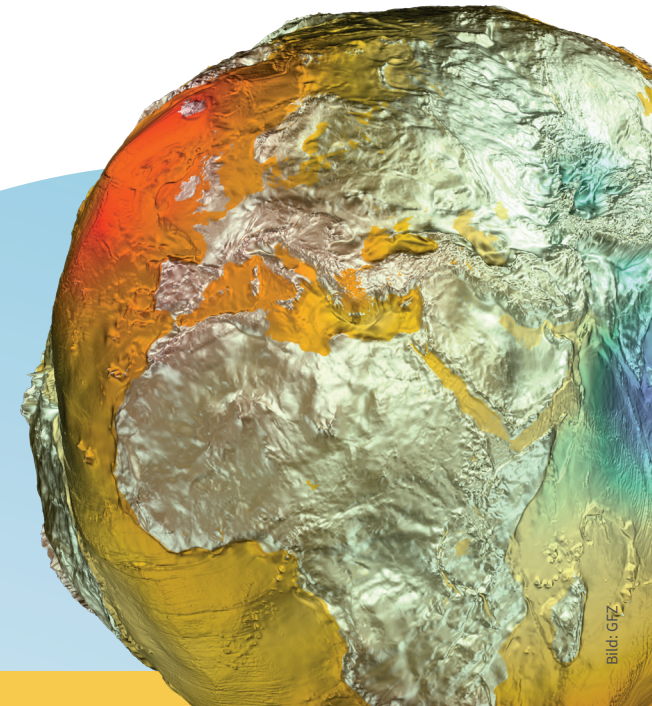


International Spring School

10–14 March 2025

Neustadt a. d. Weinstrasse
Germany

Organized by
the DFG Research Group
NERO GRAV (FOR 2736)



Important Information

Prerequisite for participation:

Background in gravity field modelling or gravity field applications to be demonstrated during registration

Registration:

until **December 1, 2024** via
<https://www.asg.ed.tum.de/iapg/nerograv/spring-school>

Language:

The spring school will be held in English

Please bring:

Laptop with Matlab or Python software

Special events on Day 2 & 3:

Visit of Technik Museum Speyer
Wine tasting

Participation fee: 0 €

Includes:

- accommodation
- full board
- lectures and practicals
- visit of Technik Museum and wine tasting

Excludes:

- further costs (travel costs, evening drinks,...) which have to be paid by participants



Scan for registration

Foto: Kloster Neustadt



Location:

■ **Kloster Neustadt**
<https://kloster-neustadt.de>

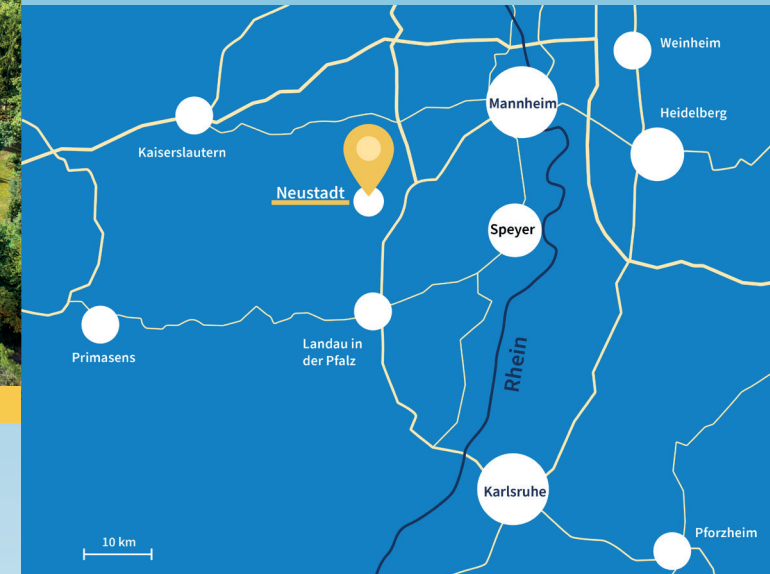
at the center of the German Wine Route
(20 km SW of Mannheim)

■ Technik Museum Speyer:

<https://speyer.technik-museum.de/en>



Technik Museen Sinsheim Speyer



Directions:

By train from **Mannheim Hbf** (35 Min.)
or **Karlsruhe Hbf** (48 Min.)
followed by a ca. 20-minute walk (uphill).

