

SeisSol/ExaHyPE UserMeeting on Thursday June 11, 2026

08:00-08:30	Registration	
08:30-08:45	Welcome and Introduction Michael Bader (TUM)	<i>Welcome Note, Basic overview of SeisSol & ExaHyPE</i>
08:45-10:15	Scientific talks 1 (SeisSol) Rachel Preca Trapani (LMU) Thomas Ulrich (LMU) Fabian Kutschera (Scripps) Nico Schliwa (ETHZ)	<i>Do 3D Dynamic Rupture Models Capture the Variability in Long-Period Velocity Pulses? Insights from the 2023 Mw 7.8 Kahramanmaraş Earthquake</i> <i>Rupture dynamics on a mature strike-slip fault: insights from ensemble modeling of the 2025 Myanmar earthquake</i> <i>Untangling seismo-acoustic and gravity waves in 3D fully coupled earthquake-tsunami simulations</i> <i>Forecasting induced microearthquakes in the BedrettoLab with SeisSol</i>
10:15-10:30	Coffee break	
10:30-12:00	Scientific talks 2 (ExaHyPE) Han Zhang (Durham Univ.) Steven J. Gibbons (NGI) Chung Ming Loi (Durham Univ.) Mario Wille (TUM)	<i>ExaGRyPE: How we build a Numerical relativity code with ExaHyPE 2</i> <i>Landslide and tsunami simulation using ExaHyPE and HySEA</i> <i>User Friendly Tsunami UQ Application with ExaHyPE and UM-Bridge</i> <i>ExaHyPE on GPUs</i>
12:00-13:00	Lunch	
13:00-14:30	Scientific talks 3 (SeisSol) Gabrielle Hobson (UCSD) Sébastien Hok (ASNR) Daniel Dreier (Univ. of Padua) Mathilde Marchandon (LMU)	<i>Mesh Morphing and Model Order Reduction for Earthquake Dynamic Rupture on the Southern San Andreas Fault</i> <i>Different applications of SEISSOL in the scope of seismic hazard assessment</i> <i>Formation of fault damage zones in carbonates</i> <i>Multi-segmented rupture, coseismically-triggered aseismic slip, and shallow rake rotation during the 2025 Mw 7.1 Tingri, South Tibet, earthquake</i>
14:30-15:00	Coffee break	
15:00-16:30	Scientific talks 4 Iris Christadler (LMU) Shane Murphy (IFREMER) Olindo Zanotti (Univ. of Trento) Alice Gabriel (Scripps/LMU)	<i>Geo-INQUIRE Transnational Access, SDL & Training Program</i> <i>Stochastic Slip distributions on non-planar faults described by unstructured mesh</i> <i>High order numerical schemes within a new first-order BSSNOK formulation of the Einstein equations</i> <i>20 Years of SeisSol and 10 Years of ExaHyPE</i>
16:30-17:30	Guided tour LRZ HPC facilities	
17:30-18:00	Evening talk Michael Dumbser (Univ. of Trento)	<i>A simple and general framework for the construction of exactly div-rot-grad compatible discontinuous Galerkin finite element schemes on unstructured simplex meshes</i>
18:00-21:00	Barbecue at LRZ	

User Workshop, Training and Hackathon

10 years of ExaHyPE · 20 years of SeisSol

11./12. June 2026 - Garching (Munich)

SeisSol/ExaHyPE Training on Friday June 12, 2026

09:00-11:00	SeisSol & ExaHyPE basic introduction	
09:00 - 10:00	SeisSol basic introduction	<i>(Alice Gabriel, Fabian Kutschera, Gabrielle Hobson, Vikas Kurapati, Mathilde Marchandon, David Schneller, Thomas Ulrich)</i>
10:00 - 11:00	ExaHyPE basic introduction	<i>(Tobias Weinzierl, Mario Wille, Piyush Karki, Han Zhang)</i>
11:00-12:00	Bavarian "Weißwurstfrühstück"	
12:00-14:00	Room 1: SeisSol Training & Hackathon	Room 2: ExaHyPE Hackathon
	<i>(A. Gabriel, F. Kutschera, G. Hobson, V. Kurapati, M. Marchandon, D. Schneller, Th. Ulrich)</i>	<i>(T. Weinzierl, M. Wille, P. Karki, H. Zhang)</i>
14:00-14:30	Coffee break: Opportunity to switch between SeisSol and Exahype!	
14:30-16:00	Room 1: SeisSol Training & Hackathon	Room 2: ExaHyPE Training & Hackathon
	<i>(A. Gabriel, F. Kutschera, G. Hobson, V. Kurapati, M. Marchandon, D. Schneller, Th. Ulrich)</i>	<i>(T. Weinzierl, M. Wille, P. Karki, H. Zhang)</i>

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