

Time schedule of the Oberwolfach Seminar »Wave Phenomena: Analysis and Numerics«, November 25-29, 2019

	Monday	Tuesday	Wednesday	Thursday	Friday
09:00 – 10:30	Christian Wieners	Christian Wieners	Roland Schnaubelt	Marlis Hochbruck	Marlis Hochbruck
11:00 – 12:30	Roland Schnaubelt	Marlis Hochbruck	Andreas Rieder	Andreas Rieder	Roland Schnaubelt
16:00 – 17:00	Andreas Rieder	Roland Schnaubelt	--	Christian Wieners	--
17:30 – 18:30	Christian Wieners	Marlis Hochbruck	--	Andreas Rieder	--
20:00 –	Short presentations by participants	Short presentations by participants	--	--	--

Topics of the Oberwolfach Seminar »Wave Phenomena: Analysis and Numerics«

Christian Wieners	Roland Schnaubelt	Andreas Rieder	Marlis Hochbruck
Introduction to the modeling of waves	Introduction and non-autonomous linear problems on \mathbb{R}^3	Basics on inverse problems	Linear wave-type problems, discontinuous Galerkin methods
Space-time solutions for linear hyperbolic systems	Local wellposedness of the quasilinear problem on \mathbb{R}^3	Abstract evolution equations	Error and stability analysis of the Crank-Nicolson and the leapfrog method
Discontinuous Galerkin methods for the linear wave equation	Local wellposedness of the quasilinear problem on domains	Applications	
Petrov-Galerkin space-time approximation	Longtime behavior		