

Monday

	Room Green 2	Room Green 3	Room Yellow 1	Room Red 1	Room Red 2
9:30am - 10:30am		Olof Runborg "Solving He	Room Green 1 Imholtz Equation Using the Chair : Marlis Hochbruck	Temporal Wave Equation"	
10:30am - 11:00am			Coffee Break		
11:00am - 12:30pm	Trefftz methods	Frequency-domain BEM	Inverse problems	DD methods	Numerical methods for time-harmonic problems
12:30pm - 2:15pm			Lunch		
2:15pm - 3:15pm		Nilima Nigam	Room Green 1 "Elasticity, skeletal muscle Chair: Peter Monk	, and waves?"	
3:30pm - 4:30pm	Analysis for time-domain problems	Frequency-domain BEM	Inverse problems	Asymptotic methods in the time domain	Periodic waveguides
4:30pm - 5:00pm			Coffee Break		
5:00pm - 6:30pm	Time-domain methods for time-harmonic problems	Frequency-domain BEM	Modelling in electromagnetism	Wave propagation in random media	Numerical methods for time-domain problems

Room Green 2 (11:00am - 12:30pm) - Trefftz Methods Chair : Andrea Moiola		
11:00am - 11:30am	<u>Lise-Marie Imbert-Gerard,</u> Guillaume Sylvand "Three types of quasi-Trefftz functions for the 3D convected Helmholtz equation: construction and theoretical approximation properties"	
11:30am - 12:00pm	Margot Sirdey, Sébastien Tordeux, Sébastien Pernet "Iterative Trefftz Method For Three-dimensional Electromagnetic Waves Simulation"	
12:00pm - 12:30pm	Emile Parolin, Daan Huybrechs, Andrea Moiola "Stable approximation of Helmholtz solutions with evanescent plane waves"	

Room Green 3 (11:00am - 12:30pm) - Frequency-domain BEM Chair : Oscar Bruno		
11:00am - 11:30am	Simon Chandler-Wilde, Antonio Caetano, Andrew Gibbs, David Hewett, Andrea Moiola "A Hausdorff-measure boundary element method for scattering by fractal screens I: Numerical Analysis"	
11:30am - 12:00pm	Andrew Gibbs, Andrea Moiola, David Hewett "A Hausdorff-Measure Boundary Element Method for Scattering by Fractal Screens II: Numerical Quadrature"	
12:00pm - 12:30pm	Francesco Florian, Ralf Hiptmair, Stefan Sauter "A new theory for acoustic transmission problems with variable coefficients modeled as stable integral equations"	

Room Yellow 1 (11:00am - 12:30pm) - Inverse problems Chair : Philippe Moireau	
11:00am - 11:30am	<u>Cristóbal Villalobos Guillén</u> , Laurent Baratchart, Houssem Haddar "Inverse problem for the Helmholtz equation and singular sources in the divergence form"
11:30am - 12:00pm	Anthony Gerber-Roth, Alexandre Munnier, Karim Ramdani "A reconstruction method for the inverse gravimetric problem"
12:00pm - 12:30pm	Masimba Nemaire, Paul Asensio, Jean-Michel Badier, Juliette Leblond, Jean-Paul Marmorat "A layer potential approach to functional and clinical brain imaging"

Room Red 1 (11:00am - 12:30pm) - Domain decomposition methods Chair : Toufic Abboud		
11:00am - 11:30am	Bruno Després, Anouk Nicolopoulos, Bertrand Thierry "On corner matrices for high order DDMs"	
11:30am - 12:00pm	Victor Dominguez, Mahadevan Ganesh, Stuart C. Hawkins "Advances in overlapping-domain framework for wave propagation in heterogeneous and unbounded regions"	
12:00pm - 12:30pm	Jose Pablo Lucero Lorca, Adrianna Gillman "A comparison between Hierarchical Poincaré-Steklov approaches for the 3D Helmholtz equation with variable coefficients"	

Room Red 2 (11:00am - 12:30pm) - Numerical methods for time-harmonic problems Chair : David Hewett		
11:00am - 11:30am	Christoph Erath, Lorenzo Mascotto, Markus Melenk, Ilaria Perugia, <u>Alexander Rieder</u> "dGFEM-BEM mortar coupling for the Helmholtz problem in three dimensions"	
11:30am - 12:00pm	Francesca Bonizzoni, Davide Pradovera, Michele Ruggeri "Rational-based MOR methods for Helmholtz frequency response problems with adaptive nite element snapshots"	
12:00pm - 12:30pm	Stefan Sauter, Maximilian Bernkopf, Céline Torres, Alexander Veit_"Solvability of Discrete Helmholtz Equations"	

Room Green 2 (3:30pm - 4:30pm) - Analysis for time-domain problems Chair : Daniel Appelö		
3:30pm - 4:00pm	Thomas G. Anderson, Oscar P. Bruno "Decay Theory and Numerical Analysis for Hybrid Frequency/Time Methods in Long-Time Transient Wave Scattering"	
4:00pm - 4:30pm	Alejandro Rosas, Patrick Joly, Maxence Cassier "Long time behaviour for electromagnetic waves in dissipative Lorentz media"	

Room Green 3 (3:30pm - 4:30pm)- Frequency domain BEM Chair : Frédérique Le Louër		
3:30pm - 4:00pm	Paul Escapil-Inchauspé, Carlos Jerez-Hanckes, "Bi-Parametric Operator Preconditioning and Applications"	
4:00pm - 4:30pm	Ignacia Fierro-Piccardo, Timo Betcke "An OSRC Preconditioner for the EFIE"	

Room Yellow 1 (3:30pm - 4:30pm) - Inverse problems Chair : Martin Berggren		
3:30pm - 4:00pn	Youngsoo Baek, Wilkins Aquino, Sayan Mukherjee "Probabilistic Wave Inversion Using Gibbs Posteriors: Application in Ultrasound Vibrometry"	
4:00pm - 4:30pn	Nanda Kishore Bellam Muralidhar, Natalie Rauter, Andrey Mikhaylenko, Rolf Lammering, Dirk A. Lorenz "Damage Identification in Fiber Metal Laminates with Guided Ultrasonic Wave using Bayesian Inference and Model Order Reduction"	

Room Red 1 (3:30pm - 4:30pm) - Asymptotic methods in the time domain Chair : Marc Bonnet		
3:30pm - 4:00pm	Pierre Millien, Lorenzo Baldassari, Alice Vanel "Modal approximation for plasmonic resonators in the time domain"	
4:00pm - 4:30pm	Maryna Kachanovska "Asymptotic models for time-domain scattering by small particless"	

Room Red 2 (3:30pm - 4:30pm) - Periodic waveguides Chair : Bérangère Delourme		
3:30pm - 4:00pm	Andreas Kirsch, Guanghui Hu, "Radiation Conditions for Periodic Waveguides"	
4:00pm - 4:30pm	Ben Schweizer "Energy method approach to existence results for the Helmholtz equation in periodic wave-guides."	

Room Green 2 (5:00pm - 6:30pm) - Time-domain methods for time-harmonic problems Chair : Sébastien Impériale		
5:00pm - 5:30pm	Daniel Appelö, Zhichao Peng "EM-WaveHoltz: A time-domain frequency-domain solver for Maxwell's equations"	
5:30pm - 6:00pm	Théophile Chaumont-Frelet, Marcus J. Grote, Jet H. Tang, Stéphane Lanteri "A controllability method for Maxwell's equations"	
6:00pm - 6:30pm	Chris Stolk "A time-domain preconditioner for the Helmholtz equation: Analysis and performance on GPUs"	

Room Green 3 (5:00pm - 6:30pm) - Frequency-domain BEM Chair : Catalin Turc	
5:00pm - 5:30pm	Laura Bagur, Stéphanie Chaillat, Jean-François Semblat, Ioannis Stefanou "Fast boundary element method for fault mechanics and earthquake control"
5:30pm - 6:00pm	Camille Carvalho, Arnold Kim, Zoïs Moitier "Quadrature by Parity Asymptotic eXpansions (QPAX) for light scattering by high aspect ratio plasmonic particle"
6:00pm - 6:30pm	Rodrigo Arrieta, Luiz Faria, <u>Carlos Perez Arancibia</u> , Catalin Turc "A High-order Density-Interpolation-Based Nyström Method for Three-Dimensional Electromagnetic Boundary Integral Equations"

Room Yellow 1 ((5:00pm - 6:30pm) - Modelling in electromagnetism Chair : Tilo Arens		
5:00pm - 5:30pm	Edouard Demaldent, Marc Bonnet "Eddy-current asymptotics of the Maxwell PMCHWT formulation: the multi-body case"	
5:30pm - 6:00pm	Marvin Knöller "Maximizing the electromagnetic chirality for metallic nanowires in the visible spectrum"	
6:00pm - 6:30pm	Samuel Gaucher, Christophe Guiffaut, Alain Reineix, Olivier Cessenat "Angle-dependent SIBC model of metamaterial in FDTD method"	

Room Red 1 (5:00pm - 6:30pm) - Wave propagation in random media Chair : Artur Gower	
5:00pm - 5:30pm	Filippo Stellin, Marcel Filoche, Frederic Dias "Localization landscape for interacting Bose gases in one-dimensional speckle potentials"
5:30pm - 6:00pm	Aristeidis Karnezis, Artur L. Gower "Complex Effective Wavenumbers of Isotropic Particulate Materials"
6:00pm - 6:30pm	Quentin Goepfert, Josselin Garnier, Laure Giovangigli, Pierre Millien "Speckle statistics in stochastic homogenization regime"

Room Red 2 (5:00pm - 6:30pm) - Numerical methods for time-domain problems Chair : Stefan Sauter	
5:00pm - 5:30pm	Sergio Gomez, Andrea Moiola "A space-time Trefftz discontinuous Galerkin method for the linear Schrödinger equation"
5:30pm - 6:00pm	Spencer Lee, Daniel Appelö "Implicit Filon Methods for Highly Oscillating Problems and Controlled Qubits"
6:00pm - 6:30pm	Gustav Eriksson, Jonatan Werpers, David Niemelä, Niklas Wik, Valter Zethrin, Ken Mattsson "Stable finite differences for the piecewise homogeneous dynamic beam equation"

Tuesday

	Room Green 2	Room Green 3	Room Yellow 1	Room Red 1	Room Red 2
9:00am - 10:00am	Room Green 1 David Krejčiřík "The virial theorem and the method of multipliers in spectral theory" Chair : Anne-Sophie Bonnet-Ben Dhia			/ "	
10:00am - 10:30am			Coffee Break		
10:30am - 12:30pm	Waveguides	MS 'Wave propagation in ab initio molecular simulation	PMLs in time domain	MS 'New trends in nonlinear acoustics'	Numerical methods for time-domain problems
12:30pm - 2:15pm	Lunch				
2:15pm - 3:15pm	Room Green 1 Biondo Biondi "Robust seismic imaging by full-waveform inversion with model time extension" Chair: Bojan Guzina			ension"	
3:30pm - 4:30pm	Numerical methods for complex media	Analysis for time-domain problems	Time-domain BEM	MS 'New trends in nonlinear acoustics'	Space-time finite elements
4:30pm - 5:00pm	Coffee Break				
5:00pm - 6:30pm	High-frequency analysis	Homogenization	Inverse problems	MS 'New trends in nonlinear acoustics'	Waves in Fluids

Room Green 2 (10:30am - 12:30pm) - Waveguides Chair : Andreas Kirsch		
10:30am - 11:00am	Tom White, Raphael Assier, William Parnell "Sound Propagation in Slowly-Varying Lined Ducts"	
11:00am - 11:30am	Laurent Bourgeois, Sonia Fliss, Jean-François Fritsch, Christophe Hazard, Arnaud Recoquillay "Scattering in a partially open waveguide: the forward problem"	
11:30am - 12:00pm	<u>Jean-François Fritsch</u> , Laurent Bourgeois, Arnaud Recoquillay "Scattering in a partially open waveguide: the inverse problem"	
12:00pm - 12:30pm	Angèle Niclas, Éric Bonnetier, Laurent Seppecher, Grégory Vial "High sensibility imaging of defects in elastic waveguides using near resonance frequencies"	

Room Green 3 (10:30am - 12:30pm) - MS 'Wave propagation in ab initio molecular simulation' Chair : Antoine Levitt	
10:30am - 11:00am	Mi-Song Dupuy, Antoine Levitt "Finite-size effects in response functions of molecular systems"
11:00am - 11:30am	Loïc Joubert-Doriol "Quantum dynamics beyond the Born-Oppenheimer approximation in molecular systems"
11:30am - 12:00pm	Matthew Colbrook, Andrew Horning, Kyle Thicke, Alex Watson "Computing Spectral Properties of Topological Insulators with Disorder"
12:00pm - 12:30pm	Eloïse Letournel, Antoine Levitt, Luigi Genovese, Ivan Duchemin, Simon Ruget_"Computation of resonances in locally perturbed periodic quantum systems"

Room Yellow 1 (10:30am - 12:30pm) - PMLs in time domain Chair : Martin Halla	
10:30am - 11:00am	Hélène Barucq, Henri Calandra, Julien Diaz, <u>Vinduja Vasanthan</u> "On the construction of Shape Functions for Spacetime Trefftz-DG Formulations of Wave Problems with Perfectly Matched Layers"
11:00am - 11:30am	Jichun Li "Analysis and FDTD simulation of a perfectly matched layer for the Drude metamaterial"
11:30am - 12:00pm	Eliane Bécache, Maryna Kachanovska, <u>Markus Wess</u> "Stability and convergence of time-domain perfectly matched layers in dispersive waveguides"
12:00pm - 12:30pm	Theau Cousin, Christian Gout, Antoine Tonnoir, Cyrille Fauchard "Perfectly Matched Layers for second order Maxwell's equations in time domain"

Room Red 1 (10:30am - 12:30pm) - MS 'New trends in nonlinear acoustics and related phenomena' Chair : Barbara Kaltenbacher	
10:30am - 11:00am	Anna Rozanova-Pierrat, Michael Hinz, Adrien Dekkers, Alexander Teplyaev "Well-posedness and shape optimization for the Westervelt Robin boundary problem on domains with non-Lipschitz boundaries"
11:00am - 11:30am	Harald Garcke, Sourav Mitra, Vanja Nikolic "A phase-field approach to shape and topology optimization of nonlinear acoustic waves"
11:30am - 12:00pm	Mostafa Meliani, Vanja Nikolić "Analysis of shape optimization problems for the Kuznetsov equation"
12:00pm - 12:30pm	Marcelo Bongarti, Irena Lasiecka "Boundary stabilization of critical nonlinear JMGT equation with undissipated Neumann boundary"

Room Red 2 (10:30am - 12:30pm) - Numerical methods for time-domain problems Chair : Théophile Chaumont-Frélet		
10:30am - 11:00am	Marlis Hochbruck, Jonas Köhler, Pratik Kumbhar "Locally Implicit Preconditioning for Maxwell equations on a locally refined spatial grid"	
11:00am - 11:30am	Akram Beni Hamad, Sébastien Impériale, Patrick Joly "Efficient numerical method for time domain electromagnetic wave propagation in thin co-axial cables."	
11:30am - 12:00pm	Yann-Meing Law, Daniel Appelö "The Hermite-Taylor Correction Function Method for Maxwell's Equations"	
12:00pm - 12:30pm	Lise-Marie Imbert-Gérard, Andrea Moiola, Paul Stocker "A space-time quasi-Trefftz DG method for the wave equation with smooth coefficients"	

Room Green 2 (3:30pm - 4:30pm) - Numerical methods for complex media Chair : Alexander Rieder	
3:30pm - 4:00pm	Martin Halla, Christoph Lehrenfeld, Paul Stocker "Numerical treatment of the vectorial equations of stellar oscillations"
4:00pm - 4:30pm	Benjamin Latham, Arnold Kim, Camille Carvalho "Capturing plasmonic behaviors in light scattering by spheres using finite element methods and asymptotic quadrature"

Room Green 3 (3:30pm - 4:30pm)- Analysis for time-domain problems Chair : Maxence Cassier	
3:30pm - 4:00pm	Anton Arnold, Sjoerd Geevers, Ilaria Perugia, <u>Dmitry Ponomarev</u> "Revisiting the limiting amplitude principle for the wave equation with variable coefficients"
4:00pm - 4:30pm	Selina Burkhard, Benjamin Dörich, Marlis Hochbruck "Gaussian wave packets for the magnetic Schrödinger equation"

	Room Yellow 1 (3:30pm - 4:30pm) - Time-domain BEM Chair : Silvia Falletta		
3:30pm - 4:00pm Alessandra Aimi, Luca Desiderio, Giulia Di Credico, Chiara Guardas Domain Energetic Boundary Element Method"		Alessandra Aimi, Luca Desiderio, Giulia Di Credico, <u>Chiara Guardasoni</u> "Recent Advances in Elastodynamics by Time- Domain Energetic Boundary Element Method"	
	4:00pm - 4:30pm	Anita Haider, Martin Schanz "Experiences with the 3D-ACA in a CQM based Time Domain Boundary Element Method"	

Room Red 1 (3:30pm - 4:30pm) - MS 'New trends in nonlinear acoustics and related phenomena' Chair : Barbara Kaltenbacher			
3:30pm - 4:00pm	Reinhard Racke, Yuxi Hu, Na Wang "Formation of singularities for relaxed compressible Navier-Stokes equations"		
4:00pm - 4:30pm	Markus Scholle, Philip Gaskell, Sara Ismail-Sutton "Obtaining nonlinear acoustic models from non-conventional variational principles in fluid mechanics"		

Room Red 2 (3:30pm - 4:30pm) - Space-time finite elements Chair : Eliane Bécache		
3:30pm - 4:00pm	Kieran Quaine, Heiko Gimperlein_"Enriched Space-Time Finite Element Methods for the Wave Equation"	
4:00pm - 4:30pm	Paolo Bignardi, Andrea Moiola "A space-time continuous and coercive variational formulation for the wave equation"	

Room Green 2 (5:00pm - 6:30pm) - High-frequency analysis Chair : Victor Dominguez		
5:00pm - 5:30pm	Oliver Phillips, Stephen Langdon, Simon Chandler-Wilde "An iterative hybrid numerical-asymptotic boundary element method for high-frequency scattering by multiple screens"	
5:30pm - 6:00pm	Anne-Sophie Bonnet-Ben Dhia, <u>Amond Allouko</u> , Vahan Baronian, Sonia Fliss "A high-frequency approach for the acceleration of the Half-Space Matching method"	
6:00pm - 6:30pm	David Hewett, Valery Smyshlyaev "The inflection point problem - from modal to scattering behaviour"	

Room Green 3 (5:00pm - 6:30pm) - Homogenization Chair : Jean-François Mercier		
5:00pm - 5:30pm Shiza Naqvi, Lorna Ayton "Homogenisation of perforated plates"		
5:30pm - 6:00pm	Rémi Cornaggia, Bruno Lombard "Homogenization for transient waves in 1D periodic media: dispersion, interfaces and point sources"	
6:00pm - 6:30pm	Amit Rotem, Daniel Appelö, Olof Runborg "The WaveHoltz Heterogeneous Multiscale Method for the Helmholtz Equation"	

Room Yellow 1 ((5:00pm - 6:30pm) - Inverse problems Chair : Laurent Bourgeois		
5:00pm - 5:30pm	Frédérique Le Louër, Olha Ivanyshyn Yaman "Modeling and analysis of an inverse boundary value problem in a two dimensional viscoelastic medium"	
5:30pm - 6:00pm	Tilo Arens, Felix Hagemann, Frank Hettlich "Domain Derivatives in Electromagnetism and Optimal Design of Chiral Objects"	
6:00pm - 6:30pm	Paul Asensio, Laurent Baratchart, Juliette Leblond, Martine Olivi, Fabien Seyfert "Surface identification through back-scattering of an electromagnetic planar wave, by rational approximation"	

Room Red 1 (5:00pm - 6:30pm) - MS 'New trends in nonlinear acoustics and related phenomena' Chair : Barbara Kaltenbacher		
5:00pm - 5:30pm	Katherine Baker, <u>Lehel Banjai</u> , Mariya Ptashnyk "A fast time-stepping method for the Westervelt equation with time-fractional damping"	
5:30pm - 6:00pm	Teresa Rauscher "Modeling and simulation of nonlinear wave propagation in ultrasound imaging"	

Room Red 2 (5:00pm - 6:30pm) - Waves in Fluids Chair : Manfred Kaltenbacher		
5:00pm - 5:30pm	Juliette Dubois, Sébastien Impériale, Jacques Sainte-Marie "Propagation of acoustic and gravity waves in the ocean: a new derivation for a general model."	
5:30pm - 6:00pm	Sébastien Boyaval "Symmetric-hyperbolic conservation laws modelling viscoelastic flows"	
6:00pm - 6:30pm	<u>Ilyes Moufid</u> , Denis Matignon, Rémi Roncen, Estelle Piot "Stability analysis of the JCAPL equivalent fluid model equations for porous media"	

Wednesday

	Room Green 2	Room Green 3	Room Yellow 1	Room Red 1	Room Red 2
Room Green 1 8:30am - 9:30am Marion Darbas "Fast solvers for time-harmonic high-frequency elastic wave propagation problem Chair: Simon Chandler-Wilde		oroblems"			
9:30am - 10:00am	Coffee Break				
10:00am - 12:00pm	Modelling in waveguides and beyond	Integral equations: analysis and applications	Homogenization	Spectral theory	High-order methods for time-domain problems
12:00pm pm	Lunch and social events				

Room Green 2 (10:00am - 12:00pm) - Modelling in waveguides and beyond Chair : Arnaud Recoquillay		
10:00am - 10:30am	Paul Martin, Alex Skvortsov "Scattering by a Body in a Pipe"	
10:30am - 11:00am	Martin Berggren, Abbas Mousavi, Eddie Wadbro "Waveguide acoustic black holes: non-helpful and helpful damping mechanisms"	
11:00am - 11:30am	Alexis Thibault, Juliette Chabassier, Henri Boutin, Thomas Hélie "Thermoviscous acoustic propagation in thin rough tubes"	
11:30am - 12:00pm	<u>Ilyes Moufid</u> , Denis Matignon, Rémi Roncen, Estelle Piot "Multipole-model approximation of the equivalent fluid model equations for porous media in the time domain"	

Room Green 3 (10:00am - 12:00pm) - Integral equations: analysis and applications Chair : Carlos Perez-Arancibia		
10:00am - 10:30am	Oscar Bruno "Efficient numerical solvers for frequency- and time-domain electromagnetic simulation, optimization and design"	
10:30am - 11:00am	Elsie Cortes, Camille Carvalho, Chrysoula Tsogka "Boundary Integral Equation Methods for Optical Cloaking Models"	
11:00am - 11:30am	Ignacio Labarca, Ralf Hiptmair "Coupled Single-Trace Formulations with Volume Integral Operators for Acoustic Transmission Problems"	
11:30am - 12:00pm	Joshua Bannister, Andrew Gibbs, David Hewett "Volume integral equations on fractal domains and the Koch snowlake transmission problem"	

Room Yellow 1 (10:00am - 12:00pm) - Homogenization Chair : Ben Schweizer				
10:00am - 10:30am	Laure Giovangigli, Sonia Fliss, Amandine Boucart "Homogenization of a thin layer of randomly distributed nanoparticles: effective model and error estimates"			
10:30am - 11:00am	Eduard Rohan, Vladimír Lukeš "Modelling acoustic metasurfaces using homogenization of fluid-structure interaction on strongly heterogeneous perforated plates in thin layers"			
11:00am - 11:30am	<u>Cédric Bellis</u> , Bruno Lombard, Marie Touboul, Raphael Assier "Effective dynamics for low-amplitude transient elastic waves in a 1D periodic array of non-linear interfaces"			
11:30am - 12:00pm	Marie Touboul, Raphael Assier, Bruno Lombard, Cédric Bellis, Philip Cotterill, David Nigro, William Parnell "High-frequency homogenisation in periodic media with imperfect interfaces and elastodynamic co-dipole metaclusters"			

Room Red 1 (10:00am - 12:00pm) - Spectral theory Chair : Konstantin Pankrashkin			
10:00am - 10:30am	Lucas Chesnel, Jérémy Heleine, Sergei A. Nazarov "Design of a mode converter using thin resonant ligaments"		
10:30am - 11:00am	Matias Ruiz, Anne-Sophie Bonnet-Ben Dhia, Christophe Hazard "Spectral analysis of generalized normal modes"		
11:00am - 11:30am	Philippe Briet, David Krejcirík, Hamza Abdou Soimadou "Sheared nanoribbons"		
11:30am - 12:00pm	Kiyan Naderi, Konstantin Pankrashkin "A trace theorem on an infinite b-adic tree"		

Room Red 2 (10:00am - 12:00pm) - High order methods for time-domain problems Chair : Julien Diaz			
10:00am - 10:30am	Valentin Ritzenthaler, Pierre Cantin, Xavier Ferrières, Sébastien Pernet, Puigt Guillaume "Spectral Difference method On Structured-Grids for Maxwell's Equations in Time Domain."		
10:30am - 11:00am	Tiphaine Delaunay, <u>Sébastien Imperiale</u> , Philippe Moireau "Stabilization of the high-order discretized wave equation for data assimilation problems"		
11:00am - 11:30am	Sara Fraschini, Andrea Moiola, Giancarlo Sangalli "Stability of space-time isogeometric methods for wave propagation problems"		
11:30am - 12:00pm	Ivy Weber, Gunilla Kreiss "A comparison of Hermite and Lagrange finite element methods for the wave equation"		

Thursday

	Room Green 2	Room Green 3	Room Yellow 1	Room Red 1	Room Red 2
9:00am - 10:00am	Room Green 1 Markus Melenk "Wavenumber-explicit hp-FEM for Helmholtz problems in piecewise smooth media" Chair : Lehel Banjai				
10:00am - 10:30am			Coffee Break		
10:30am - 12:30pm	Periodic and quasi- periodic media	Frequency-domain BEM	Inverse problems	Numerical methods for spectral problems	Numerical methods for time-domain problems
12:30pm - 1:45pm	Lunch				
1:45pm - 2:45pm	Room Green 1 Barbara Kaltenbacher "Mathematics of Nonlinear Acoustics: Modeling - Analysis - Numerics - Inverse Problems" Chair : Thorsten Hohage			verse Problems"	
3:00pm - 4:00pm	Time-harmonic multiple scattering	Nonlinear problems	Inverse problems	Spectral theory	Artificial boundary conditions
4:00pm - 4:30pm	Coffee Break				
4:30pm - 6:00pm	Analysis for time- harmonic problems	Frequency-domain BEM	Inverse problems	Wave propagation in random media	Nonlinear problems

Room Green 2 (10:30am - 12:30pm) - Periodic and quasi-periodic media Chair : Rémi Cornaggia				
10:30am - 11:00am	Pierre Amenoagbadji, Sonia Fliss, Patrick Joly "Wave propagation in unbounded quasiperiodic media, Part 1: the absorbing case"			
11:00am - 11:30am	Patrick Joly, Sonia Fliss, Pierre Amenoagbadji "Wave propagation in unbounded quasiperiodic media, Part 2: the non-absorbing case"			
11:30am - 12:00pm	Bojan Guzina, Othman Oudghiri-Idrissi, Shixu Meng "Asymptotic analysis of Berry phase governed by the scalar wave equation"			
12:00pm - 12:30pm	Nasim Shafieeabyaneh, Ruming Zhang "Numerical solution for non-periodic scattering problem in the 3D periodic structure"			

Room Green 3 (10:30am - 12:30pm) - Frequency-domain BEM Chair : Martin Schanz			
10:30am - 11:00am	Simon Dirckx, Daan Huybrechs, Karl Meerbergen "A data compact representation for frequency dependent BEM matrices"		
11:00am - 11:30am	Toufic Abboud, <u>Benoît Chaigne</u> , Marek Felšöci, Alexandre Piche, Guillaume Sylvand "Numerical Modelisation of Interaction between Plasma Thruster Plume and Antennas on Small Satellites"		
11:30am - 12:00pm	Igor Chollet, Xavier Claeys, Pierre Fortin, Laura Grigori "defmm : A FFT-based Kernel-independent Directional Fast Multipole Library for Arbitrary Particle Distributions at All Frequency Regimes"		
12:00pm - 12:30pm	Christoph Bauinger, Oscar P. Bruno "Massively Parallelized Interpolated Factored Green Function Method"		

Room Yellow 1 (10:30am - 12:30pm) - Inverse problems Chair : Karim Ramdani			
10:30am - 11:00am	Yannik G. Gleichmann, Marcus J. Grote, Daniel H. Baffet "Adaptive Spectral Decomposition for Time-Dependent Inverse Problems"		
11:00am - 11:30am	Tyler Masthay, Björn Engquist_"Optimal Transport for Elastic Seismic Source Inversion"		
11:30am - 12:00pm	<u>Tiphaine Delaunay</u> , Sébastien Impériale, Philippe Moireau "Solving inverse source wave problem: from observability to observer design"		
12:00pm - 12:30pm	Björn Müller, Thorsten Hohage, Laurent Gizon, Damien Fournier "Iterative helioseismic holography-Inversions for solar differential rotation"		

Room Red 1 (10:30am - 12:30pm) - Numerical methods for spectral problems Chair : Markus Wess			
10:30am - 11:00am	Jean-René Poirier, Ronan Perrussel "Solution of a non-linear eigenvalue problem for Photonic Crystal Fiber applications"		
11:00am - 11:30am	Augustin Leclerc, Antoine Tonnoir, Hélène Barucq, Marc Duruflé, Christian Gout "Modal computation for open waveguides"		
11:30am - 12:00pm	Kersten Schmidt, Philipp Jorkowski, Carla Schenker, Luka Grubišic, Rolf Schumann "Adapted contour integration for nonlinear eigenvalue problems in wave-guide coupled resonators"		
12:00pm - 12:30pm	Alexei Stepanenko, Frank Rösler "Computing eigenvalues of the Laplacian on rough domains"		

Room Red 2 (10:30am - 12:30pm) - Numerical methods for time-domain problems Chair : Juliette Chabassier			
10:30am - 11:00am	Benjamin Dörich, Jan Leibold, Bernhard Maier "Maximum norm error bounds for the full discretization of non-autonomous wave equations"		
11:00am - 11:30am	<u>Vidar Stiernström</u> , Martin Almquist "Order-preserving non-conforming grid interfaces for boundary-optimized summation-by-parts operators"		
11:30am - 12:00pm	Guillaume Castera, Juliette Chabassier "Linearly implicit energy consistent time discretisation for nonlinear wave equations"		
12:00pm - 12:30pm	Manfred Kaltenbacher, Dominik Mayerhofer, Hamideh Hassanpour Guilvaiee, Florian Toth "Non-conforming and moving grids for the simulation of waves in viscous fluids"		

Room Green 2 (3:00pm - 4:00pm) - Time-harmonic multiple scattering Chair : Pierre Millien		
3:00pm - 3:30pm	Vianey Villamizar, Tahsin Khajah, Jonathan Hale, Monu Jaiswal "An Efficient Iterative High Order Numerical Method for Multiple Scattering"	
3:30pm - 4:00pm	Cory McCullough, Camille Carvalho, Arnold Kim "Asymptotic analysis for sound-hard acoustic scattering by two closely-situated spheres"	

Room Green 3 (3:00pm - 4:00pm) - Nonlinear problems Chair : Reinhard Racke			
3:00pm - 3:30pm	Mathias Ionescu-Tira, Tomáš Dohnal, Marcus Waurick "Analysis and Approximation of Electromagnetic Surface Waves in Nonlinear Dispersive Media"		
3:30pm - 4:00pm	Geoffrey Beck, David Lannes, Lisl Weynans "Wave power farm made of many rigid floating structures in Boussinesq regime"		

	Room Yellow 1 (3:00pm - 4:00pm) - Inverse problems Chair : Juliette Leblond		
3:00pm - 3:30pm Mourad Bellassoued, Houssem Haddar, Amal Labidi "Log-stability results for inverse coefficients problem with time harmonic magnetic Schrödinger operator"		Mourad Bellassoued, Houssem Haddar, <u>Amal Labidi</u> "Log-stability results for inverse coefficients problem associated with time harmonic magnetic Schrödinger operator"	
	3:30pm - 4:00pm	Kyle Wright, Roummel Marcia, Boaz Ilan "Numerical methods for a Schrodinger equation inverse eigenvalue problem"	

Room Red 1 (3:00pm - 4:00pm) - Spectral theory Chair : Matias Ruiz		
3:00pm - 3:30pm	Lucas Chesnel, <u>Jérémy Heleine</u> , Sergei Nazarov "Acoustic passive cloaking using thin resonant ligaments"	
3:30pm - 4:00pm	Jean Fornerod, Hoai-Minh Nguyen "The Weyl Law of transmission eigenvalues and the completeness of the generalized transmission eigenfunctions without the complementing conditions"	

Room Red 2 (3:00pm - 4:00pm) - Artificial boundary conditions Chair : Kersten Schmidt	
3:00pm - 3:30pm	Nathan Rouxelin, Hélène Barucq, Sébastien Tordeux "Low-order Absorbing Boundary Conditions in HDG discretization of the convected Helmholtz equation"
3:30pm - 4:00pm	Luiz Faria, Alexis Anne, Anne-Sophie Bonnet-Ben Dhia "Solving the water-waves problem with Laplace's free-space Green's function"

Room Green 2 (4:30pm - 6:00pm) - Analysis for time-harmonic problems Chair : Lise-Marie Imbert-Gérard	
4:30pm - 5:00pm	Rainer Mandel, Zoïs Moitier, Barbara Verfürth, "Nonlinear Helmholtz equations with sign-changing diffusion coefficient"
5:00pm - 5:30pm	Anne-Sophie Bonnet-Ben Dhia, Lucas Chesnel, Mahran Rihani "3D scalar transmission problem in presence of a conical tip of negative material."
5:30pm - 6:00pm	Anne-Sophie Bonnet-Ben Dhia, Lucas Chesnel, Mahran Rihani "Maxwell's equations in presence of a tip of material with negative permittivity"

Room Green 3 (4:30pm - 6:00pm)- Frequency-domain BEM Chair : Alessandra Aimi	
4:30pm - 5:00pm	Carlos Jerez-Hanckes, Jose Pinto, Tao Yin "Exponentially Convergent Spectral Galerkin BEM for Elastic Wave Scattering of Cracks"
5:00pm - 5:30pm	Hadrien Montanelli, Houssem Haddar, Matthieu Aussal "Computing singular and near-singular integrals in high-order boundary elements"
5:30pm - 6:00pm	Catalin Turc, Víctor Domínguez "Robust boundary integral equations of Helmholtz decomposition formulations of elastic scattering problems"

Room Yellow 1 (4:30pm - 6:00pm) - Inverse problems Chair : Lucas Chesnel	
4:30pm - 5:00pm	Arnaud Recoquillay "On the use of phased array data for the Linear Sampling Method in an elastic waveguide"
5:00pm - 5:30pm	Yosra Boukari, Houssem Haddar, Nouha Jenhani "Identification of a local perturbation in unknown periodic layers"
5:30pm - 6:00pm	Timo Lähivaara, Peter Monk, Virginia Selgas "The Time Domain Linear Sampling Method for Maxwell's equations"

Room Red 1 (4:30pm - 6:00pm) - Wave propagation in random media Chair : Cedric Bellis	
4:30pm - 5:00pm	<u>Jean-Philippe Banon</u> , Pierre Pelletier, Claude Weisbuch, Svitlana Mayboroda, Marcel Filoche "Wigner-Weyl description of radiative processes in correlated disordered semiconductor alloys"
5:00pm - 5:30pm	Artur Gower, Gerhard Kristensson, Stuart Hawkins "Modelling and validating average waves in random particulate materials"
5:30pm - 6:00pm	Amandine Boucart, Sonia Fliss, Laure Giovangigli, Bruno Stupfel "Modeling scattering from a random thin coating: asymptotic model and numerical simulations"

Room Red 2 (4:30pm - 6:00pm) - Nonlinear problems Chair : Anna Rozanova-Pierrat	
4:30pm - 5:00pm	Eun-Hong Min, Weon Cheol Koo "Numerical Study on Spatial Evolution of Progressive Waves using Fully Nonlinear Numerical Wave Tank."
5:00pm - 5:30pm	Jagdeep Tamber, Tranter Matt "Scattering of an Ostrovsky Wave Packet in a Delaminated Waveguide"
5:30pm - 6:00pm	Nils Margenberg, Franz Kärtner, Markus Bause "Higher Order Variational Time Discretizations for Nonlinear Dispersive Wave Equations"

Friday

	Room Green 2	Room Green 3	Room Yellow 1	Room Red 1	Room Red 2
9:00am - 11:00pm	High frequency analysis	Periodic and quasi- periodic media	PMLs in frequency domain	Coupling methods and their applications	Aeroacoustical Engineering
11:00am - 11:30am	Coffee Break				
11:30am - 12:30am	Room Green 1 Xavier Claeys "Generalized optimized Schwarz methods in arbitrary non-overlapping subdomain partitions" Chair : Patrick Joly				
12:30pm - 2:00pm	Lunch				

Room Green 2 (9:00am - 11:00am) - High-frequency analysis Chair : Marc Lenoir	
9:00am - 9:30am	
9:30am - 10:00am	Olivier Lafitte "High frequency analysis of the Dirichlet to Neumann operator for the Helmholtz equation on a coated cylinder or elliptic cylinder"
10:00am - 10:30am	Mauricio Londoño, Francisco Rodríguez-Cortés "Oscillatory RBF for Helmholtz problems with large wavenumber"
10:30am - 11:00am	Jeffrey Galkowski, <u>Pierre Marchand</u> , Euan Spence "High-frequency estimates and error bounds on the h-BEM for the Helmholtz exterior Neumann problem"

Room Green 3 (9:00am - 11:00am) - Periodic and quasi-periodic media Chair : Vincent Pagneux		
9:00am - 9:30am	Othman Oudghiri-Idrissi, Bojan B. Guzina "Effective Wave Motion in Periodic Origami Structures"	
9:30am - 10:00am	Maxence Cassier, Michael I. Weinstein "TE band structure for honeycomb media in a high contrast regime"	
10:00am - 10:30am	Bérangère Delourme, Sonia Fliss "Dislocation model for hexagonal periodic graphs perturbed along the Zig Zag direction"	
10:30am - 11:00am	Harold Berjamin, Riccardo De Pascalis "Acoustoelasticity of soft viscoelastic solids and phononic crystals"	

Room Yellow 1 (9:00am - 11:00am) - Perfectly matched layers in frequency domain Chair : Lothar Nannen		
9:00am - 9:30am	Eliane Bécache, Anne-Sophie Bonnet-Ben Dhia, Sonia Fliss, <u>Antoine Tonnoir</u> "The Half-space Matching method and the Perfectly Matched Layers for scattering problem in anisotropic elastic media"	
9:30am - 10:00am	Martin Halla "Radial complex scaling/PML for anisotropic scalar resonance problems"	
10:00am - 10:30am	Hadrien Bériot, <u>Axel Modave</u> "A PML implementation for convex domains of general shape in time-harmonic acoustics"	
10:30am - 11:00am	Thorsten Hohage, Janosch Preuß, Christoph Lehrenfeld "Learned Infinite Elements"	

Room Red 1 (9:00am - 11:00am) - Coupling methods and their applications Chair : Bruno Desprès	
9:00am - 9:30am	
9:30am - 10:00am	Alice Nassor, Marc Bonnet, Stéphanie Chaillat "Transient, global-in-time, convergent iterative coupling of acoustic BEM and elastic FEM"
10:00am - 10:30am	Luca Desiderio, Silvia Falletta, <u>Matteo Ferrari</u> , Letizia Scuderi "One-equation coupling of Curvilinear Virtual Element and Boundary Element methods for the wave equation in unbounded domains"
10:30am - 11:00am	Justine Labat, Agnès Pujols, Francis Collino "Discontinuous Galerkin-based domain decomposition method for boundary integral equations in electromagnetism"

Room Red 2 (9:00am - 11:00am) - Aeroacoustical Engineering Chair : Guillaume Sylvand	
9:00am - 9:30am	Alistair Hales, Lorna Ayton "Reduction of Leading-Edge Noise by Tailored Turbulence Anisotropy"
9:30am - 10:00am	Maëlys Ruello, Clément Rudel, Sébastien Pernet, Jean-Philippe Brazier "One-Way methods for wave propagation in complex flows"
10:00am - 10:30am	Felician Putz, Yi Zhang, Martin Oberlack "Instability and over-reflection of acoustic waves in compressible boundary layer flows"
10:30am - 11:00am	Linus Hägg, Martin Berggren "Accounting for viscothermal boundary losses in time-domain acoustics"