	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
	October 6	October 7	October 8	October 9	October 10
	Famaey	Xavier	Passieux	Blaysat	Passieux
9:00-9:45		(4) Image-based approaches in high- strain rate testing analysis: composites and wood materials	(1) Theory and implementation of (FE-)DIC (2D, 2.5D & 3D): functional, solvers and a priori error estimate	(3) Advanced LSA	(6) Overview of image-based models
	Famaey	Famaey	Passieux	Blaysat	Réthoré
9:45-10:30	(2) Basics of mechanical characterization & parameter fitting: uniaxial, biaxial and unconfined compression testing	(6) Micro-CT based multiscale modelling	(2) Hands-on on FE-DIC/DVC	(4) Hands-on on LSA	(6) An overview of voxel-based FE approaches
	Famaey	Réthoré	Passieux	Blaysat	Réthoré
11:00-11:45		(1) Theory and implementation of FEMU: cost-function, boundary conditions, a priori error estimates	(3) Theory and implementation of (FE-	(5) Assessment of the metrological performances of full-field measurement methods (DIC/LSA, from images to kinematic fields)	(3) Data-driven mechanics: theoretical background
	Xavier	Réthoré	Passieux	Blaysat	Réthoré
11:45-12:30	(1) 2D and stereo digital image correlation: guidance and practical concepts	(2) Hands-on on FEMU	(4) Hands-on on FE-DIC/DVC	(6) Patterning Techniques (2D, 2.5D)	(4) Formulation and implementation of DDI
	Xavier	Xavier	Redenbach	Redenbach	Réthoré
14:00-14:45	(2) The virtual fields method: extracting material parameters from heterogeneous fields	(5) Image-based material testing: design and implementation	(1) Image processing: Segmentation	(4) Image analysis for cracks, including motion estimation by optical flow	(5) Hands-on
	Famaey	Xavier	Redenbach	Redenbach	
14:45-15:30	(4) Bulge-inflation testing & the virtual fields method	(6) Hands-on with Jupyter Notebooks: Virtual Fields Method for Material Identification	(2) Image processing: Mathematical morphology	(3) Geometric microstructure characteristics	
		Blaysat	Redenbach	Redenbach	
16:00-16:45	(3) Image-based approaches in fracture mechanics: composites, wood and bone materials	(1) Spectral measurement methods: From gray levels to phase modulations	(3) Synthetic data for deep learning and method validation	(4) Quantitative image analysis: analysis and modelling of foam structures	
	Famaey	Blaysat		Passieux	
16:45-17-30		(2) LSA (theory, implementation & examples)	Poster session / Workshop	(5) Optimisation of identification tests setups	