

MS10: Recent advances in polytopal methods for coupled problems Organizers: Michele Botti and Sergio Gomez***Part I - Wednesday, August 30th***

Time	Speaker	Name of the talk
10:45-11:10	Ilario Mazzieri	Mixed Virtual Element approximation of linear acoustic wave equation
11:10-11:35	Pietro Zanotti	Inf-sup theory for the Biot's equations in poroelasticity
11:35-12:00	Andrea Borio	A coupled VEM-MFD formulation for poromechanics
12:00-12:25	Michele Visinoni	Virtual Element approximation for poroelasticity problems
12:25-12:50	Stefano Bonetti	Numerical modelling of wave propagation phenomena in thermo-poroelastic media via discontinuous Galerkin methods
12:50-13:15	Andrea Chiozzi	A novel family of hybrid Finite Volume / Virtual Element methods for incompressible flows on unstructured meshes

Part II - Friday, September 1st

Time	Speaker	Name of the talk
10:45-11:10	Giuseppe Vacca	Virtual element method for the Navier–Stokes equation coupled with the heat equation
11:10-11:35	Elena Bachini	Intrinsic Surface VEM for Vector Laplacian
11:35-12:00	Silvano Pitassi	Discrete Weber inequalities and related Maxwell compactness for hybrid spaces over polyhedral partitions
12:00-12:25	Matteo Ferrari	A virtual element method for the solution of time-harmonic elastic wave equations via scalar potentials
12:25-12:50	Manuel Luigi Trezzi	CIP-Stabilized Virtual Element Method for advection-dominated problems
12:50-13:15	Matteo Caldana	A Deep Learning algorithm to accelerate Algebraic Multigrid methods in Finite Element solvers