



4º CONGRESO DE JÓVENES  
INVESTIGADORES  
Real Sociedad Matemática Española  
Universitat de València,  
del 4 al 8 de Septiembre de 2017



## S12: Métodos Numéricos para EDO y EDP (Aula M-1.3)

### Miércoles 6 de septiembre

11:30-12:00 **Enrique Delgado**, Reduced Basis Method for fluids flows

12:00-12:30 **Maurizio Tavelli**, A semi-implicit discontinuous Galerkin method on staggered unstructured meshes for the solution of the compressible Navier–Stokes equations at all Mach numbers

12:30-13:00 **Tomasz Rembiasz**, Numerical Viscosity and Resistivity In Eulerian MHD Codes

13:00-13:30 **Nicolás Sanchis-Gual**, Dynamical formation of a Reissner-Nordström black hole with scalar hair in a cavity

16:30-17:00 **David Zorío**, Métodos de Taylor aproximados para EDOs

17:00-17:30 **Teresa Luque**, Numerical approximation of a potential from fixed angle scattering data

17:30-18:00 **Isabel Cordero-Carrión**, A new efficiently and massively parallel algorithm for the solution of elliptic systems of partial differential equations

### Jueves 7 de septiembre

11:30-12:00 **Saray Busto**, A high order FV/FE projection method for Navier-Stokes equations

12:00-12:30 **Birte Schmidtman**, Compact Third-Order Limiter Functions for Finite Volume Methods. Non-Uniform and 2D Grids

12:30-13:00 **Cipriano Escalante**, Non-hydrostatic shallow water flows with enhanced dispersive properties. An efficient implementation using hybrid finite-volume finite-difference schemes

13:00-13:30 **Juan Ruiz**, The Immersed Interface Method for axis-symmetric problems and applications