This minisymposium (MS) will gather researchers working on Numerical Methods for Multi-Material Fluid Flow (MULTIMAT).

We aim at pushing forward the state-of-the-art in the field of multi-phase and multi-material flow problems. Researchers from academic and/or laboratory institutions will focus their discussions on relevant numerical methods, including the analysis of such methods as well as the modeling of complex multi-material flows, which is essential for the investigation and development of new sources of energy, including inertial confinement fusion.

The key words of this MS are to be found within:

- Lagrangian hydrodynamics,
- Arbitrary Lagrangian Eulerian (ALE) methods,
- Eulerian and diffuse interface methods,
- Multi-material diffusion,
- Interface reconstruction methods,
- Multiphase flows,
- Remapping, Mesh rezoning,
- Advanced discretization methods,
- High-order nonlinear methods,
- Numerical methods for complex constitutive models.