*High-order Methods FOR under-Resolved turbulent flows*

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ABSTRACT

The demand for accurate CFD predictions is driving the development of highly accurate simulation techniques able to predict all flow regimes ranging from laminar to turbulent. High-order methods, (e.g. h/p spectral or Discontinuous Galerkin) that minimise numerical errors can provide enhanced accuracy for all flow regimes including challenging transitional and turbulent flows; e.g. [1-3].

This mini-symposium invites researchers from academia and industry to share their expertise when computing turbulent flows using high order methods. Particularly, new developments on stable, robust and accurate numerical techniques to compute under-resolved turbulent flows are welcome.

These research areas are addressed in a number of EC projects, for examples in SSEMID or DRAGY research programs within H2020. The mini-symposium invites researches interested in the following topics:

* High order methods for turbulent flows
* Steady and unsteady RANS flows
* Under-resolved turbulence (DNS, LES, Implicit LES, Spectral Vanishing Viscosity)

**REFERENCES**

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