

## **Seminar announcement**

**Speaker:** prof. Vit Dolejsi, Charles University Prague, CZ

### **Abstract**

The discontinuous Galerkin method (DGM) is a rapidly developed technique for the numerical solution of partial differential equations. DGM exhibits a natural compromise between the finite volume and finite element schemes. It has been intensively studied and developed since 1990. Despite a great progress of the research in this area, DGM is not yet ready for the solution of practical problems of computational fluid dynamics (CFD).

In this talk, we discuss the potential of DGM to become a practically useful technique for the solution of CFD problems. Namely, we discuss an efficient solution of the arising algebraic problems, parallelization issues and mesh adaptivity including hp-methods and anisotropic mesh adaptation. We show several numerical examples of steady as well as unsteady flows simulations.

**March, the 3<sup>rd</sup>, 2016 at 14:30 in Sala Consiglio Dipartimento di Scienze e Tecnologie Aero-spaziali, Campus Bovisa La Masa, Via La Masa 34, 20156 Milano**