



## Einladung

Im Rahmen des Schwerpunktskolloquiums „Analysis und Numerik“ hält

**Herr Professor Dr. Gianluigi Rozza**  
**(SISSA, International School for Advanced Studies, Trieste)**

am **Donnerstag, dem 26. Juni 2014**, einen Vortrag zum Thema:

**New trends for geometrical parametrization techniques in reduced order  
modelling: interfaces and shapes**

Der Vortrag findet um **15.15 Uhr** in Raum **F 426** statt.

Es wird Gelegenheit gegeben, sich vorher (ab 16.30 Uhr)  
im Common Center F 441 bei Tee und Kaffee zu treffen.

Alle Interessenten sind herzlich eingeladen.

Andrea Barjasic

Beauftragte für das Kolloquium

### **Abstract:**

We present some recent advances and improvements in shape parametrization techniques for reduced order modelling with special attention to multiphysics interfaces in fluid-structure interaction problems and the management of structural deformations, namely to represent them into a low dimensional space (by control points to be properly selected), in order to reduce the computational effort, and to significantly simplify the management of the (geometrical) deformation procedure, thus allowing more efficient and fast reduced order modelling applications in this kind of problems. The examples provided deal with aeronautics and wind engineering problems. In collaboration with Davide Forti.

(Volkwein)