

Kolloquium Angewandte Mathematik  
Prof. Thomas Apel (BauV1)  
Prof. Matthias Gerdts (LRT1)  
Prof. Joachim Gwinner (LRT1)

## Vortragsankündigung

Am **Mittwoch, dem 8.02.2012**, hält um **17.00 Uhr**

Herr **Prof. Ricardo Duran**  
(University Buenos Aires, Argentina)

einen Gastvortrag über das Thema

### **Improved Poincaré inequalities and solutions of the divergence in general bounded domains**

Der Vortrag findet im **Raum 1116** in **Gebäude 150** statt.

#### **Vortragszusammenfassung**

In this talk we analyze the relation between some classical inequalities such as improved Poincaré inequalities and the inf-sup condition for the Stokes equations. We present an approach to prove these inequalities as well as some generalizations of them for the case of non-Lipschitz domains. As an application, we give some results on the existence and uniqueness of solution of the Stokes equations.

**Alle Interessierten sind dazu herzlich eingeladen.**