

Kolloquium Angewandte Mathematik
Prof. Thomas Apel (BAU1)
Prof. Matthias Gerdts (LRT1)
Prof. Joachim Gwinner (LRT1)
Vertretungs-Prof. Sven-Joachim Kimmerle (BAU1)
Prof. Markus Klein (LRT1)

Vortragsankündigung

Am **Dienstag, den 12.12.2017**, hält um **17:00 Uhr**

Serge Nicaise
(U de Valenciennes)

einen Gastvortrag über das Thema

Regularity of solutions of elliptic problems with Dirac measures as data

Der Vortrag findet im **Raum 0401** in **Gebäude 33** statt.

Vortragsumfassung

In this talk we study the Laplace equation with Dirac right-hand side. We prove regularity results in a scale of weighted Sobolev spaces, the weight being the distance to the support of the right-hand side. Model situations in dimension three are treated by using Fourier, Laplace or Mellin technique that reduces the problem to a Helmholtz problem in two dimensions. Hence the key point stays on estimates for the solution of the Helmholtz problem in standard or weighted Sobolev spaces which are uniform with respect to the parameter.

Alle Interessierten sind dazu herzlich eingeladen.