



# SFB Colloquium

**TIME:**

10 Feb 2009, 16:15 - 17:15

**LOCATION:**

Konrad-Zuse-Zentrum für Informationstechnik Berlin  
Takustrasse 7  
14195 Berlin-Dahlem

**PROGRAM:**

15:00 - 15:45 General Meeting of the SFB members

15:45 - 16:15 Coffee Break

16:15 - 17:15 **Dr. Steffen Fröhlich (FU)**

**Coulomb frames in the normal bundle of surfaces in  $R^n$** 

This talk addresses two-dimensional surfaces in Euclidean spaces of higher codimension and the geometry and analysis of their normal bundles. We introduce torsion quantities associated with the geometry of normal bundles, and we discuss a new concept of Coulomb frames, originally introduced by F. Helein to describe the analytic behaviour of harmonic mappings between manifolds, which are stationary for a functional of total torsion.

**Contact:**

Humboldt-Universität zu Berlin . Institut für Mathematik  
SFB 647 . Unter den Linden 6 . 10099 Berlin  
Tel. +49 30 2093 1804 . Fax. +49 30 2093 2727  
sfb647@math.hu-berlin.de

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