



Oberseminar
Geometrische Analysis, Differentialgeometrie und Relativitätstheorie

Am Donnerstag, den **18.05.2017** spricht um **14 Uhr c.t.** im Raum **S9**

Dr. Leon Escobar
(Universität Tübingen)

über das Thema

**A pseudo-spectral approach for the numerical treatment
of the initial value problem in spherical manifolds**

In this talk we introduce a pseudo-spectral approach, based on the spin-weighted spherical harmonics, for the treatment of the initial value problem on manifolds topologically equivalent to the two-sphere. Additionally, as an application to general relativity, we use this method for finding numerical solutions of an hyperbolic formulation of the constraints equations.

Hierzu wird herzlich eingeladen.

C. Cederbaum, G. Huisken