



**Sommersemester 2021**

**Oberseminar  
Geometrische Analysis, Differentialgeometrie und Relativitätstheorie**

Am Donnerstag, den **20.05.2021** spricht um **14:00** per Videoübertragung

**Dr. Renan Assimos**  
( Leibniz Universität Hannover )

über das Thema

**The geometry of the maximum principle and a spherical Bernstein theorem by B. Solomon**

Joint work with J. Jost: A result of B.Solomon (On the Gauss map of an area-minimizing hypersurface. 1984. Journal of Differential Geometry, 19(1), 221-232.) says that a compact minimal hypersurface  $M^k$  of the sphere  $S^{k+1}$  with  $H^k(M) = 0$ , whose Gauss map omits a neighborhood of an  $S^{k-1}$  equator, is totally geodesic in  $S^{k+1}$ . In this talk, I will present a new proof strategy for Solomon's theorem which allows us to obtain analogous results for higher codimensions. If time permits, we sketch the proof for codimension 2 compact minimal submanifolds of  $S^{k+1}$ .

**Hierzu wird herzlich eingeladen. Bei Interesse bitte per E-Mail an [angelika.spoerer-schmidle@uni-tuebingen.de](mailto:angelika.spoerer-schmidle@uni-tuebingen.de) wenden, um den Link zur Videoübertragung zu erhalten.**

Hierzu wird herzlich eingeladen.

C. Cederbaum, G. Huisken, K. Kröncke