



# *EINLADUNG*

Im Rahmen des Literaturseminars

zum Vortrag

von

**Bernd Schmidt**

(AEI Golm)

über

*“Transition conditions for isolated self-gravitating bodies”*

**Abstract:**

For freely floating self-gravitating bodies the boundary conditions on physical grounds are: the vanishing of the normal stress at the boundary for all times. We expect that these conditions together with initial data determine a unique solution of the evolution equations. However, if the density of the matter at the surface of the body is positive, further "transition conditions" are needed to imply sufficient differentiability of the solution inside and outside the body. I will discuss the origin of these conditions first for a simple model problem and then for self-gravitating bodies in Newton's and Einstein's theory of gravity.

**Zeit:** Donnerstag, 20.10.2016, **14.00**

**Ort:** Arbeitsgruppe Gravitation, Währinger Straße 17,  
**Raum 218, 2. Stock**

gez.: P. Chrusciel