

**PHYSICAL COLLOQUIUM
INVITATION**

Monday, 12.12.2016, 4.15 p.m., W2-1-148

speaks

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about

The new DFG core facility center "Physics of Rotating Fluids" at BTU

The present talk aims to report and summarize the new international research center (core facility center) for "Physics of Rotating Fluids (PRF)" with geo-/astrophysical, meteorological and technical applications located at BTU. The main goal is to integrate cutting-edge rotating and stratified fluid flow experiments across national boundaries in order to foster internationally competitive experimental research in the research field of rotating and stratified fluids by providing an easy access to outstanding experimental facilities equipped with state-of-the-art instrumentation.

The research areas covered by the experimental facilities inside the new center are:

- Planetary and astrophysical flows (with focus on disk formation, instabilities and mixing)
- Geophysical fluid dynamics (with focus on strato-rotational turbulence, mean flow generation and wave interaction)
- Rotating flows with technical applications (centrifuges, turbines, journal bearings and rotor/stator cavities)

All interested persons are cordially invited.

Sgd. Prof. Joachim Peinke