

**PHYSICAL COLLOQUIUM
INVITATION**

Monday, 29.01.2024, **4.15 p.m.**, Room No. W02 1-148

Speaks

**Prof. Dr. Norbert Hoffmann,
Institute for Structural Dynamics,
Hamburg University of Technology (TU Hamburg), Germany**

about

**“Monster Waves: Radar Based Sea State Identification and Numerical Short Term
Deterministic Ocean Wave Prediction”**

For many offshore and naval operations the knowledge of the imminently upcoming ocean waves would be highly desirable. Numerical studies suggest that on a time-scale of few to several minutes ocean waves are usually highly deterministic. In this talk we report work on the identification of the ocean wave state based from radar data and on the subsequent computational prediction of the sea state. Model based, data based, and hybrid methods are presented.

All interested persons are cordially invited.

Prof. Dr. Joachim Peinke