

Seminar im Rahmen des GRK 2078

Referee: **Prof. Reinaldo Rodríguez-Ramos**
Faculty of Mathematics and Computer Science, University of Havana, Cuba

Date: Tuesday, December 3, 2019
Time: 14:00 h
Location: Bldg. 10.23, 3rd Floor, Room 308.1 (KM-Seminar Room)

Title: **Computation of effective properties of smart composites**

Abstract

The present work shows a methodology to find the effective properties of piezoelectric/flexoelectric composites with generalized periodicity using the two-scales asymptotic homogenization method. The presentation offers detailed description of the steps to find the local problems and to derive the effective mechanical/electrical properties. The procedure is used to solve the local problems of a stratified composite with complex geometry and perfect contact at the interface. Finally, a comparison between the behavior of the effective properties for rectangular and wavy piezoelectric/flexoelectric laminated composites is shown.

Alle Interessenten sind herzlich eingeladen.

Prof. Dr.-Ing. Thomas Böhlke
(Sprecher des GRK 2078)