## Computational and Applied Mathematics Seminar

## **Speaker:**

## Prof. Torsten Linß, FernUniversität in Hagen, Germany

Monday, May 7, 2018 1:00 p.m., HH-3017

On systems of singularly perturbed problems and their robust numerical approximation

## **Abstract:**

A survey is given of current research into the numerical solution of systems of second-order differential equations whose diffusion coefficients are small parameters. Such problems are in general singularly perturbed. The equations in these systems may be coupled through their reaction and/or convection terms. Only numerical methods whose accuracy is guaranteed for all values of the diffusion parameters are considered here.