ALPEN-ADRIA UNIVERSITÄT KLAGENFURT

INVITATION TO THE DOCTORAL SEMINAR

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"Free Boundary Problems of Fluid Flow and Fluid-Structure Interactions"

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Abstract

In this talk, we will give an introduction to free boundary problems of partial differential equations involving the Navier-Stokes and the Euler Equations on an evolving domain with a particular emphasis on systems of fluid-structure interaction involving the Euler or the Navier-Stokes equations coupled with elasticity or plate equations. In the last part of the talk, I will present our latest work on well-posedness of a free boundary model of inviscid flow-plate interactions.

Barbara Kaltenbacher and the Department of Mathematics look forward to seeing you at the talk!