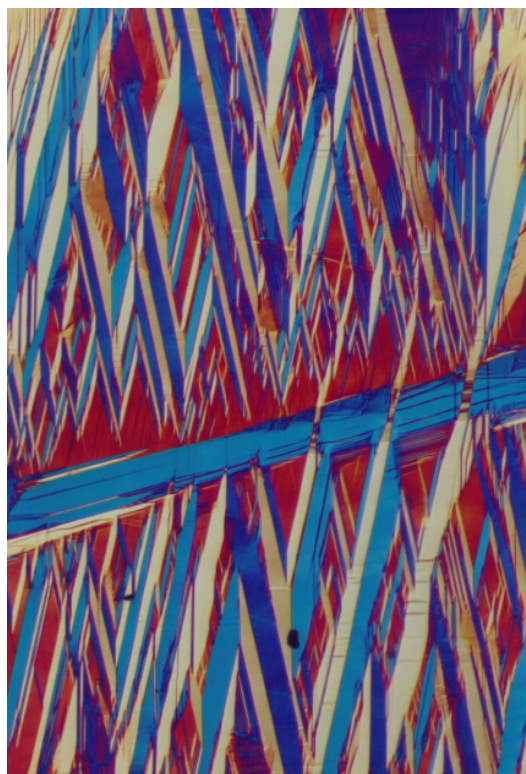


**Friday 12 May 2023 at 14:15**

FU Berlin, Computer Science Building, Room T9.028

Tea & Cookies starting at 13:00!

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Anja Schlömerkemper
(U Würzburg)

Various Structures in Mathematics of Materials

In many materials, interesting structures can be observed on various scales. Modeling and investigation of their properties results in challenging mathematical problems, which involve for instance minimization of variational problems, solutions of evolutionary equations or limit passages in homogenization problems. In this talk, an introduction to these topics and an overview of some related recent results will be provided.

Anja Schlömerkemper has been a professor of Mathematics at the University of Würzburg since 2011. She works in mathematical analysis with applications to materials science and physics. In particular, she investigates elastic and magnetic materials by involving methods from the calculus of variations, the theory of partial differential equations and homogenization theory. She was trained as a physicist in Göttingen, obtained her PhD in Mathematics in 2002 at Leipzig University and spent time at the Universities of Oxford and Stuttgart, at the Max Planck Institute for Mathematics in the Sciences in Leipzig and at the Universities of Erlangen-Nuremberg and Bonn.

The Kovalevskaya Colloquium has been a MATH+/BMS tradition since 2006. This event will be its 30th edition and we will come together to celebrate the International Women in Mathematics Day on 12 May. The event is organized in collaboration with CRC 1114. 