## Thermoelasticity, Lyapunov Functionals, and Algebra

Michael Dreher, Institute of Mathematics, University of Rostock, 18051 Rostock April 2019

The exponential stability of solutions to evolution equations such as models from thermoelasticity can be shown by means of a Lyapunov functional, which are being constructed in a process that consists of several steps and depends on careful choices of large and small parameters. This talk intends to shed some light into this procedure using concepts from real algebraic geometry.