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**Title:**

Stability results for model predictive control schemes for infinite-dimensional systems

**Abstract:**

The first part of the talk presents results for the stability analysis of stabilizing model predictive control (MPC) schemes for infinite dimensional systems. The application of the results will be illustrated for several types of PDE governed control systems, including reaction-diffusion equations and the Fokker-Planck PDE. The second part will sketch recent attempts to extend these results to economic MPC schemes.

The presented results are based on joint work with Nils Altmüller, Arthur Fleig and Marleen Stieler.