# Stability of splitting methods for PDEs

Alexander Ostermann
Alexander.Ostermann@uibk.ac.at
Universität Innsbruck, Austria

Although their analytical properties are far from been fully understood, splitting methods enjoy great popularity among the computational PDE community.

In this talk we shall discuss stability properties of splitting methods for parabolic differential equations. The analysis is based on the framework of sectorial operators in Banach spaces and allows the treatment of non-normal operators in fairly general norms.