

Seminar of the Work Group  
Nonlinear Partial Differential Equations  
SS 24

**June 26th, 2024, 11:30 - 12:30**  
**Seminar room: SR 3.069**

## Extensions and Differential Constraints

Franz Gmeineder, University of Konstanz

### **Abstract**

Extension operators are at the core of studying function spaces, allowing us to reduce numerous problems on domains to those on full space. While this theme has witnessed a huge number of contributions over the past century, very little is known on extension operators that preserve certain differential constraints. In this talk, we will give a rather complete picture for divergence-type constraints, where we put a special focus on the borderline case  $p = 1$ . This is joint work with Stefan Schiffer (MPI MIS Leipzig).