

**Franz Gmeineder**

*University of Konstanz, Germany*

### **Extension and differential constraints**

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  $p = 1$  and thereby answer a borderline case left open by Kato, Mitrea, Ponce & Taylor.

This is joint work with Stefan Schiffer (MPI MIS Leipzig).