

**Olaf Post**

Trier, Germany

**Norm resolvent convergence in varying spaces: different concepts and examples**

In this talk we present recent results on different concepts of operator convergence in varying spaces. In particular, there is a concept named "generalised norm resolvent convergence" by Weidmann, where all operators are considered in a common "parent" Hilbert space. Weidmann's concept turns out to be (almost) equivalent to the concept of quasi-unitary equivalence developed by the present speaker. We will present both concepts also along many examples. This is joint work with Sebastian Zimmer (Uni Trier), <https://arxiv.org/abs/2202.03234>