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Extrapolation spaces and Desch–Schappacher perturbations of bi-continuous semigroups

We construct extrapolation spaces for non-densely defined (weak) Hille–Yosida operators. In particular, we discuss extrapolation of bi-continuous semigroups. As an application we present a Desch–Schappacher type perturbation result for this kind of semigroups. This talk is based on [1] and [2], which are joint works with B. Farkas.

References

- [1] Christian Budde and Bálint Farkas, *Intermediate and extrapolated spaces for bi-continuous semigroups*, arXiv:1711.05528 [math.FA], 2017.
- [2] ———, *Desch–Schappacher perturbations for bi-continuous semigroups*, preprint, 2018.