

C-maximal regularity and C-admissibility for semigroups on locally convex spaces

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In this talk we consider C-maximal regularity and C-admissibility for strongly continuous locally equicontinuous semigroups on sequentially complete locally convex Hausdorff spaces. The C here stands for *continuous* and describes the regularity of the inhomogeneity of an abstract Cauchy problem of first order involving the generator of a strongly continuous locally equicontinuous semigroup. We show that C-maximal regularity and the a priori weaker C-admissibility are equivalent for such semigroups on certain classes of locally convex Hausdorff spaces.

This contribution is a joint work with Felix L. Schwenninger [1].

References

- [1] K. Kruse, F. L. Schwenninger, C-maximal regularity and C-admissibility for semigroups on locally convex spaces, 2024. *arXiv preprint* <https://arxiv.org/abs/2408.11437>.