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Robert Plato* (plato@mathematik.uni-siegen.de), Department of Mathematics, University of Siegen, Walter-Flex-Str. 3, Siegen, 57068. *Some new results on Lavrentiev regularization for linear accretive ill-posed problems.*

In this talk we consider Lavrentiev regularization for solving linear accretive ill-posed problems in Hilbert spaces. We present converse and saturation results both for exact and noisy data, and quasi-optimality results for parameter choices are obtained as a by-product. New results on adjoint source representations are also given.

References

1. R. Plato, Converse results, saturation and quasi-optimality for Lavrentiev regularization of accretive problems, 2016, [arXiv.org:1607.04879](https://arxiv.org/abs/1607.04879).
2. R. Plato, P. Mathé, and B. Hofmann, Optimal rates for Lavrentiev regularization with adjoint source conditions, 2016. TU Chemnitz, Fakultät für Mathematik, Preprint 2016-3.

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