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James Nagy* (jnagy@emory.edu), 400 Dowman Drive, Suite W401, Atlanta, GA 30322. *Krylov Subspace Regularization for Inverse Problems.*

In this talk we consider recent work on Krylov subspace-based regularization approaches that combine direct matrix factorization methods on small subproblems with iterative solvers. The methods are very efficient for large scale imaging problems and have the advantage that various regularization approaches can be used, and they can also incorporate methods to automatically estimate regularization parameters. (Received January 10, 2021)