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DK Seminar

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Vienna University of Technology,
Freihaus, green area, 4th floor

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Rate optimal adaptive FEM with inexact solver for strongly monotone operators

Meanwhile, the mathematical understanding of adaptive FEM has reached a mature state with certain milestones for linear elliptic PDEs and nonlinear energy minimization problems. Moreover, optimal adaptive FEM with inexact solvers has already been addressed for linear PDEs as well as eigenvalue problems. However, for problems involving nonlinear operators, optimal adaptive FEM with inexact solvers has not been analyzed yet. The present talk aims to close the gap between (abstract) convergence analysis and empirical evidence by analyzing a model class of strongly monotone operators.