

COMPARING MULTILEVEL COARSENING STRATEGIES*

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Abstract. We compare several multilevel coarsening strategies by using stable subspace splitting techniques. The obtained condition numbers give an answer on how well the coarsening strategies are suited for solving an anisotropic elliptic boundary value problem.

Key words. Finite elements, multilevel algorithms, semi-coarsening.

AMS subject classifications. 65N30, 65N55, 65N22.

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