

ADAPTIVE BOUNDARY ELEMENT METHODS

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ABSTRACT

In our talk, we intend to present the state of the art on adaptive boundary element methods (adaptive BEMs). To this end, we shall give a brief introduction to BEM (if needed). Then, we discuss some *a posteriori* error estimators, which have been proposed and analyzed in the literature. Finally, we shall present the concept of quasi-optimal convergence of adaptive BEM together with recent results on the interplay of adaptivity and iterative solvers.

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