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Alan Demlow* (alan.demlow@uky.edu) and **Rob Stevenson**. *Optimality of an adaptive FEM for controlling L_2 errors.*

We prove quasi-optimality of an adaptive finite element methods for controlling the L_2 error in elliptic problems instead of the usual energy error. In our presentation we explain how the L_2 case differs from the energy case, and also make an excursion into techniques of a priori error analysis. (Received February 25, 2011)