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Ira Herbst* (iwh@virginia.edu), Kerchof Hall, University of Virginia, 141 Cabell Drive, Charlottesville, VA 22904, and **Erik Skibsted**. *Exponential Decay of Eigenfunctions of Higher Order Elliptic PDE's*.

We study exponential decay of eigenfunctions of self-adjoint elliptic operators on \mathbb{R}^d . We show that the possible decay rates can be determined by solving certain algebraic equations. In addition we show absence of super-exponentially decaying eigenfunctions. (Received August 26, 2013)