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Katya Krupchyk* (katya.krupchyk@uci.edu), University of California, Irvine, CA. *Spectral Estimates and Inverse Boundary Problems for Elliptic Operators.*

We shall discuss some recent progress concerning Lebesgue-space estimates for resolvents of elliptic partial differential operators. Applications to inverse boundary problems for elliptic operators with coefficients of low regularity as well as to spectral theory for periodic Schrödinger operators will be presented. This talk is based on joint works with Gunther Uhlmann. (Received September 22, 2015)