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*Resolvent Estimates for Non-Self-Adjoint Semiclassical Schrödinger Operators.*

For self-adjoint operators, the spectral theorem provides a very powerful tool to estimate the norm of the resolvent, but there is no suitable analog in the non-self-adjoint case. This makes resolvent estimates for non-self-adjoint operators generally more difficult to attain. In this talk we provide a bit of background on estimating the resolvent for such operators in the semiclassical setting, and then outline a proof of one such estimate for a fairly broad class of non-self-adjoint Schrödinger operators. (Received February 27, 2017)