Asymptotic eigenvalue statistics of a non-self-adjoint operator with a small random perturbation

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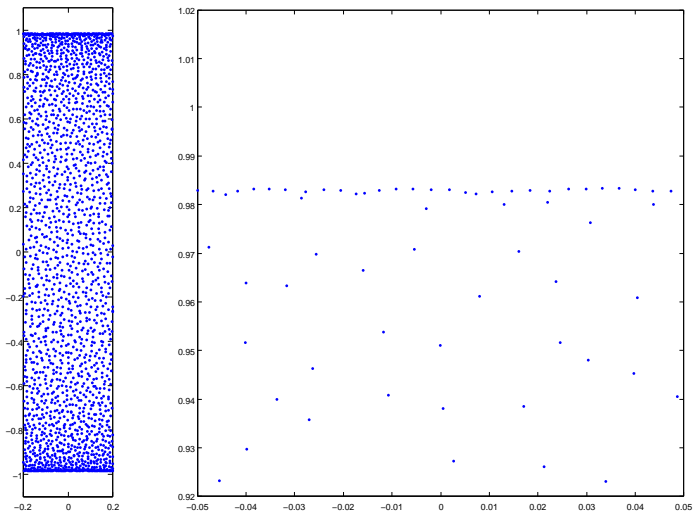ICMS workshop, 14th March 2013

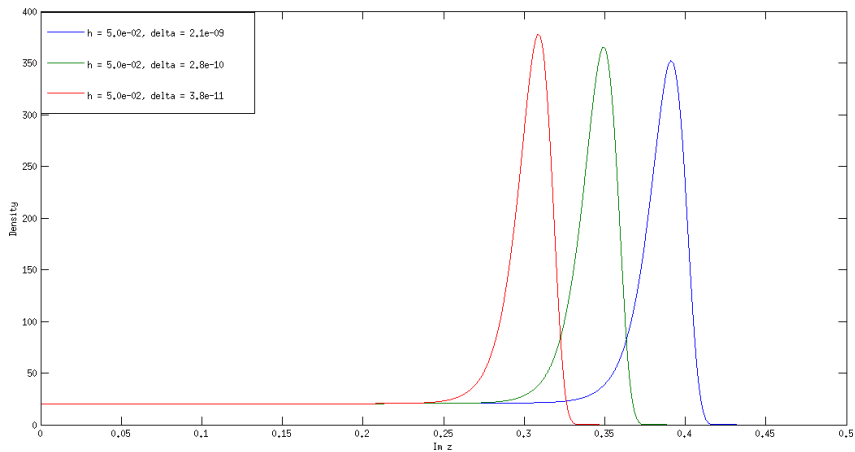Figure: Spectrum for $h = 2 \cdot 10^{-3}$ and $\delta = 2 \cdot 10^{-12}$.
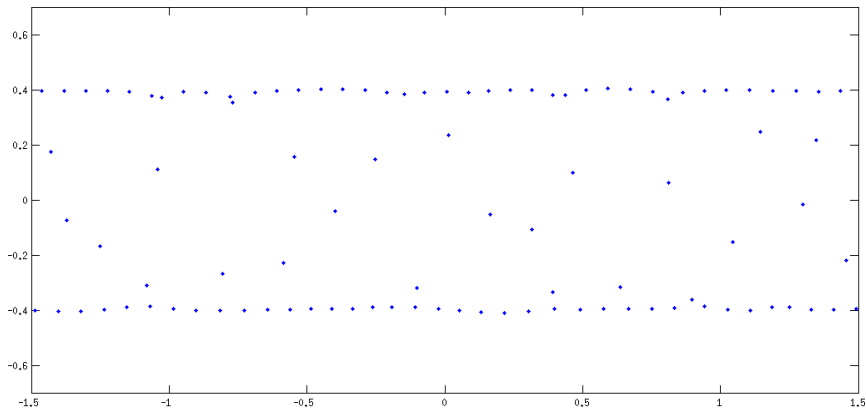
Figure: Eigenvalue density.

Figure: Spectrum for $h = 3 \cdot 10^{-2}$ and $\delta = \exp\left(-\frac{1}{h}\right) \approx 3.3 \cdot 10^{-15}$.