

1040-35-232

**Daniel G. Alfaro Vigo\*** (dgalfaro@impa.br), Instituto de Matematica Pura e Aplicada, Est. Dona Catorina 110, Rio de Janeiro, RJ 22460-320, Brazil. *Self-averaging of the Wigner transform for weakly mismatched random media*. Preliminary report.

This work is devoted to the asymptotic analysis of the Wigner transform of solutions of two Schrodinger equations with different random potentials. We consider several scaling limits and prove that for weakly mismatched potentials, the limiting Wigner transform is self-averaging, in the sense that the limiting law is deterministic. (Received February 27, 2008)