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Canada. *asymptotics for christoffel functions of planar measures.*

We prove weak* convergence of the Christoffel functions with varying weights to a "weighted" equilibrium measure for a general class of subsets of the complex plane, weights and measures. For subsets of the real line (considered as a subset of the complex plane) such christoffel functions arise as the (scaled) expected density of eigenvalues of an appropriate ensemble of random matrices. (joint work with N. Levenberg) (Received February 26, 2008)