

Strong asymptotics of MOP

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I will explain how the fixed point argument can be used to prove the strong asymptotics of multiple orthogonal polynomials. We will consider the Angelesco system and discuss the sharp analog of the celebrated Szegő theorem on asymptotics for polynomials orthogonal on a segment. The recently discovered connection between MOP and Jacobi matrices on trees provides applications of our results in spectral theory. Based on the joint work with A. Aptekarev and M. Yattselev.