## Nikishin systems on star-like sets: limiting functions in ratio asymptotics

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Abstract: Let  $p \ge 2$  be an integer, and let  $\{Q_n\}_{n\ge 0}$  be the sequence of monic, type II multiorthogonal polynomials associated with a Nikishin system of measures supported on a compact subset of the (p + 1)star  $S_+ = \{z \in \mathbb{C} : z^{p+1} \ge 0\}$ . Under some conditions, the sequence of ratios  $Q_{n+1}/Q_n$  has periodic limits outside the support of the measures in the Nikishin system. In this talk I will describe the limiting functions in terms of certain conformal algebraic functions defined on a compact Riemann surface of genus zero. Joint work with G. López Lagomasino.