FWF
Der Wissenschaftsfonds.

SFB QMC

JKU
JOHANNES KEPLER
UNIVERSITÄT LINZ

Online talk series

It is a pleasure to announce a guest lecture with the title

Spectral Theory Sum Rules, Meromorphic Herglotz Functions and Large Deviations

SPEAKER: **Barry Simon**
TIME: Tuesday, 21.07.2020, 04:00 – 5:30 pm.

Abstract: After defining the spectral theory of orthogonal polynomials on the unit circle (OPUC) and real line (OPRL), I'll describe Verblunsky's version of Szego's theorem as a sum rule for OPUC and the KillipSimon sum rule for OPRL and their spectral consequences. Next I'll explain the original proof of KillipSimon using representation theorems for meromorphic Herglotz functions. Finally I'll focus on relatively recent work of Gamboa, Nagel and Rouault who obtain the sum rules using large deviations for random matrices.