

Description of Helson-Szegő measures in terms of the Schur parameter sequences of associated Schur functions

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Let μ be a probability measure on the Borelian σ -algebra of the unit circle. Then we associate a Schur function θ in the unit disk with μ and give characterizations of the case that μ is a Helson-Szegő measure in terms of the sequence of Schur parameters of θ . Furthermore, we state some connections of these characterizations with the backward shift.

The talk is based on joint work with V. K. Dubovoy and B. Fritzsche.