

# Periodically modulated rescaling limits and canonical systems with cantor spectrum

*Peter Yuditskii*

Recent advances in the study of universality limits for fixed measures show that regularly varying rescalings of Christoffel–Darboux kernels have a limit if and only if rescalings of the associated Weyl  $m$ -functions have a limit. In this talk, we discuss the case when there is not a single limit kernel but a full limit cycle. We show that balanced measures on a real Julia set of an arbitrary expanding polynomial provide natural examples for this kind of scaling behavior.

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