

Two applications of non-standard orthogonality

08.02**Alfredo Deaño***(University of Kent, UK)***Time:** Wednesday 24.07., 11:00 - 11:30, Room HS 3

Abstract: In this talk we will illustrate the use of non-standard orthogonal polynomials (OPs), more precisely non-Hermitian OPs in the complex plane, and their large degree asymptotics in two different but related contexts: asymptotic behavior of special function solutions of Painlevé differential equations and analysis of non-Hermitian random matrix models with singularities. *Partly based on joint work with Nick Simm (University of Sussex, UK).*