

Title:

On a conjecture of Alphonse Magnus regarding the asymptotics of the recurrence coefficients for polynomials orthogonal with respect to a log weight

Abstract:

The speaker will show how to prove Magnus' conjecture in key special cases. Standard RHP/steepest-descent methods cannot be applied directly because there is no known parametrix for the orthogonal polynomials in the neighborhood of the log singularity.

This is joint work with Oliver Conway.