

# Seminar

Prof. Andrew Rechnitzer

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## An introduction to the kernel method

Tuesday, October 31, 2017

at 15:15 h

ESI, Schrödinger Lecture Hall

**Abstract:** The kernel method has become one of the standard tools for solving lattice path enumeration problems. I will start by introducing the method in the context of constrained 1-dimensional random walks. When we move up to 2 dimensions, the generating functions of random walk models can display a very broad range of analytic properties. In this context the kernel method becomes much richer and I will demonstrate a few of the ways in which it may be applied. I'll finish (time permitting) with a few open problems concerning more complicated boundary conditions.

M. Drmota, C. Krattenthaler

October 30, 2017