

## Mathematical Colloquia

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**Monday, 03 December 2018**

17:15 h, Lecture Room 119

**Prof. Dr. Johannes Rau, University of Tuebingen**

# Counting curves and polynomials - a tropical view

**Abstract:**

In my talk I will give a brief survey of the applications of tropical geometry in the context of enumerative geometry. I will focus on two types of problems, namely counting curves in the plane (Gromov-Witten invariants) and counting ramified covers of algebraic curves (Hurwitz numbers). We will investigate how tropical methods can help to compute these numbers and reveal their internal combinatorial structure. No prior knowledge of tropical or enumerative geometry will be required.