

**December 5, 2018 from 5:00 PM at [Refectory of Augustinian Abbey at Mendel Square - Mendel Museum](#)**

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## **Algebraic Geometry and Differential Equations**

Abstract:

The use of elliptic functions to solve equations like the motion of a pendulum or a rigid body is a shadow of a much wider area of application of algebraic geometric notions to solving special nonlinear differential equations. The lecture will show how some natural procedures in algebraic geometry help to understand the behavior of integrable systems, especially near the so-called critical locus.