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ÉCOLE POLYTECHNIQUE
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SEMINAR OF MATHEMATICS

TUESDAY March 24, 2015 at 09h00, lecture hall BI AO 448 *(CIB)*

Prof. **Zsolt PATAKFALVI** *(Princeton University)* will present a seminar entitled:

"Moduli spaces of (log-)varieties: projectivity and applications"

Abstract:

One of the primary goals of algebraic geometry is to classify algebraic varieties. In this talk, I will explain what algebraic varieties are and how the quest for their classification leads to the construction of moduli spaces.

I will also discuss why projective compactifications of these moduli spaces are useful. To demonstrate this, I will focus on moduli spaces of stable (weighted pointed) curves, as well as their higher dimensional generalizations, which are referenced as stable log-varieties, KSBA pairs or semi-log canonical models in the literature.

In the end, I will present recent results on the projectivity of the moduli spaces of stable log-varieties, as well as some applications and related results.

Lausanne, March 20 2015 / mg