Algebra Seminar

Log canonical and F-pure thresholds and ordinary reduction

Lance Edward Miller
University of Arkansas

Abstract: The F-pure threshold of a variety in characteristic p ¿ 0 is a rational number which measure of its singularities near the origin. It is intimately connected to birrational invariants of complex varieties such as the log canonical threshold through reduction mod p. The agreement of these two invariants is also deeply connected to ordinary (in the sense of Bloch-Kato) reduction as can already been seen clearly in the case of elliptic curves. This talk introduces these thresholds and their connections and explores a special cases where agreement can be shown purely in using algebraic methods.

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Mathematics and Computer Science
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