FMSP Lectures

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Introduction to Logarithmic Geometry

November 14 (Mon)	10:25 ～ 12:10	Room 126
November 16 (Wed)	10:25 ～ 12:10	Room 128
November 18 (Fri)	10:25 ～ 12:10	Room 126
November 21 (Mon)	10:25 ～ 12:10	Room 126
November 25 (Fri)	10:25 ～ 12:10	Room 126

Abstract:

Logarithmic Geometry was invented (or discovered) in the 1980's, with crucial ideas contributed by Deligne, Faltings, Fontaine, Illusie, and especially K. Kato. It provides a systematic framework for the study of the related phenomena of compactification and degeneration in algebraic and arithmetic geometry, with applications to number theory. I will attempt to explain the main ideas and foundations of Kato's version of log geometry, with an emphasis on its geometric and topological aspects.