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<th>Date</th>
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<th>Seminar/Event</th>
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Algebraic Geometry
Monday, May 14, 2018, 3:10pm-4:30pm
4096 East Hall
Kenta Sato (University of Tokyo)
Ascending chain condition for F-pure thresholds

For a germ of a variety in positive characteristic and a non-zero ideal sheaf on the variety, we can define the F-pure threshold of the ideal by using the Frobenius morphism. This is an invariant that measures the singularities of the pair formed by the ambient variety and the ideal. In this talk, I will show that the set of all F-pure thresholds on a fixed strongly F-regular germ satisfies the ascending chain condition. This is a positive characteristic analogue of the “ascending chain condition for log canonical thresholds” in characteristic 0, which was recently proved by Hacon, McKernan, and Xu.

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Well partial orderings and their maximum extending ordinals

A well partial order is a partial order all of whose extensions to a total order are well-orders. (These are often studied as well-quasi-orders, where the requirement of antisymmetry is dropped.) In 1976 De Jongh and Parikh showed that for a given WPO X, among the ordinals obtained this way there is always a maximum o(X). We will discuss the theory of WPOs and o(X), several equivalent formulations, and how o(X) can actually be computed for some concrete WPOs.