Logarithmic resolution of singularities using algebraic stacks

Dan Abramovich
(Brown University)

Monday, February 12 at 4:00 pm
665 Commonwealth Avenue, CDS 548
Tea and cookies at 3:30

Abstract: In joint work with Andr Belotto da Silva, Michael Temkin, and Jarosaw Wodarczyk, we prove logarithmic resolution of singularities in characteristic 0 using algebraic stacks. This is a byproduct of work with the same authors which addresses varieties with foliations. It refines the non-logarithmic work done with Temkin and Wodarczyk and work of Ming Hao Quek.

I will attempt to explain the principles underlying this work in a manner that requires no prior knowledge of resolution of singularities.