Mathematics, Statistics, and Computer Science **@ UIC**

Algebraic Geometry Seminar

Singular spaces with trivial canonical class

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Abstract: The Beauville-Bogomolov decomposition theorem asserts that any compact Kähler manifold with numerically trivial canonical bundle admits an étale cover that decomposes into a product of a torus, an irreducible, simply-connected Calabi-Yau, and holomorphic symplectic manifolds. With the development of the minimal model program, it became clear that singularities arise as an inevitable part of higher dimensional life. I will present recent works in which a singular version of the decomposition theorem is established.

Wednesday, January 24 at 4:00 PM in SEO 427