

Mathematical Sciences Colloquium

How to reconstruct spaces from given singularity information?



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>>>Venue(110-N103)<<<

Host

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Abstract

For a given space, one can study its singularities. Then what about the converse? In this colloquium, we will discuss the reconstruction problem: How to reconstruct spaces from given singularity information? In particular, we will see how one can solve the problem, by using the theory of cascades together with the help of computer, for some classes of algebraic varieties such as toric Fano surfaces or log del Pezzo surfaces of Picard rank one. Basic ideas on algebraic varieties and their singularities will be explained.