연세 대수기하학 세미나
Yonsei Algebraic Geometry Seminar

Date 2018년 3월 30일, ~~4 pm~~ **3 pm**

Location 이과대학 과학관 254

Speaker **Kangjin Han (DGIST)**

Title: Singular loci of secant varieties and its application to tensors

Abstract: Let X be an irreducible closed subvariety in a projective space. There is so-called a 'secant construction' which allows a natural way to construct a new variety from a given algebraic variety. In general, on singular loci of secants, it is classically known that the singular locus of r-th secant of X contains the previous one. Thus, a natural question is to ask its properness in the containment. For matrices, the variety of matrices with rank bounded by r is singular exactly in the variety of matrices with rank bounded by $r-1$. But, for tensors, there are some known examples where the inclusion is strict.

In this talk, we introduce basic notions, review some known results briefly, and explain a recent result on set of rank 3 symmetric tensors by the author. We also consider some application of the result to a problem of tensor decomposition.

EVERYONE IS WELCOME.

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