



ODTU-Bilkent Algebraic Geometry

“Evaluation codes defined on subsets of a toric variety”

BY

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Abstract: In this talk, we review algebraic methods for studying evaluation codes defined on subsets of a toric variety. The key object is the vanishing ideal of the subset and its Hilbert function. We reveal how invariants of this ideal such as multigraded regularity and multigraded Hilbert polynomial relate to parameters of the code. Time permitting, we share the nice correspondence between subgroups of the maximal torus and lattice ideals as their vanishing ideals.

Date: 26 April 2019, Friday

Time: 15:40 +

Place: Mathematics Seminar Room, SA- 141

Tea and cookie will be served before the talk. You are most cordially invited.