ODTU-Bilkent Algebraic Geometry

Vector invariants of a permutation group over characteristic zero

By

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Abstract: We consider a finite permutation group acting naturally on a vector space V over a field k. A well known theorem of Göbel asserts that the corresponding ring of invariants k[V]G is generated by invariants of degree at most dim V choose 2. We point out that if the characteristic of k is zero then the top degree of the vector coinvariants k[mV]G is also bounded above by n choose 2 implying that Göbel's bound almost holds for vector invariants as well in characteristic zero.
This work is joint with F. Reimers.

Date: 18 November 2022, Friday
Time: 15:40 (GMT+3)
Place: Zoom

To request the event link, please send a message to sertoz@bilkent.edu.tr