



Department of Mathematics Seminar

Rigidity for Unirational Groups

By

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Abstract: One of the most fundamental results underlying the theory of abelian varieties is "rigidity" -- that is, that any k -scheme morphism of abelian varieties which preserves identities is actually a k -group homomorphism. This result depends crucially upon the properness of such varieties. For affine groups in general, there is no analogous rigidity statement. We will nevertheless show that such a rigidity result holds for unirational groups (which are always affine) over fields of degree of imperfection 1 which satisfy certain conditions, and discuss several implications.

Date: 24 March 2021, Wednesday

Time: 15:30

Place: Zoom

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