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Mathematical Colloquia

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Monday, 02 March 2020

17:15 h, Lecture Room 119

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High transitivity in algebra and geometry

Abstract:

An infinite group G is called *highly transitive* if it acts on some infinite set m-transitively for any natural number m. We give a brief survey on some recent results on abstract highly transitive groups.

Then we pass to examples of affine algebraic varieties with the automor- phism group acting highly transitively. Specifically, for toric affine varieties a highly transitive group can be generated by a finite number of one-parameter subgroups; for the affine spaces, three such subgroups suffice. We formulate some open problems related to group growth, and explain some partial results.

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