

## Mathematical Colloquia

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**Monday, 09 March 2020**

17:15 h, Lecture Room 119

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# Ranks of tensors

**Abstract:**

Tensors can be thought of as multidimensional matrices and nowadays appear in several areas of pure and applied mathematics such as algebraic geometry, additive combinatorics, complexity theory, and information theory.

As for matrices, there is a natural notion of tensor rank. However, the latter behaves rather differently than usual matrix rank and it is generally difficult to compute. The aim of this talk is to give an introduction to tensors and their ranks.

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