
CURSO DE DOCTORADO

Nikita Kalinin

*Saint Petersburg University and National Research University Higher
School of Economics (HSE)*

Tropical approach to singular points and its connections to Nagata's conjecture and linear codes

Abstract: Tropical geometry provides a tool to capture the influence of a singular point of a curve on a subdivision of the Newton polygon of this curve. To visualise this influence we will study some necessary facts about matroids and polyhedral geometry, so the students are advised to read somewhere the definition of a matroid and look at the main examples in advance. Then we discuss applications of the above ideas for Nagata's conjecture and linear codes.

**Aulario de la Facultad de Ciencias
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