

Otto-von-Guericke-Universität Magdeburg
Fakultät für Mathematik

Auf Einladung des Institutes für Algebra und Geometrie spricht

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über das Thema

Exploring the Fine adjunction spectrum

Zeit: Dienstag, 10. Dezember 2024, 13.00 Uhr, G03-315

Zu diesem Vortrag laden wir alle Interessierten herzlich ein.

Prof. Dr. Benjamin Nill

Abstract: For toric varieties, adjunction theory of polarized algebraic varieties amounts to "moving inward" all facets of a lattice polytope at the same speed. Inspired by what is nowadays called the Fine interior, we propose a "Fine adjunction theory", moving inwards all valid inequalities at the same speed. In many respects, we obtain a better behaved theory.

In this talk, I will focus mainly on the finiteness of the Fine \mathbb{Q} -codegree spectrum. A finiteness conjecture by Fujita for the classical analogue was proved only recently by Di Cerbo. For the Fine version, we try and describe the possible values in small dimensions. This is ongoing joint work with Sofía Garzón.