

Otto-von-Guericke-Universität Magdeburg
Fakultät für Mathematik

Auf Einladung des Institutes für Algebra und Geometrie spricht

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über das Thema

Equations for self-associated points

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Zu diesem Vortrag laden wir alle Interessierten herzlich ein.

Dr. Barbara Betti / Prof. Dr. Thomas Kahle

Abstract: We consider configurations of $2d+2$ points in d -dimensional projective space. We say that such a configuration is self-associated if, for a corresponding matrix representation X , there exists a diagonal matrix D with nonzero determinant such that $XD X^t = 0$. The variety A_d parametrizing self-associated point configurations was introduced by Dolgachev and Ortland, who proved that it is rational and irreducible. In this talk, we address the problem of finding equations that cut out A_d set-theoretically, and we investigate other interesting geometric properties of this variety. This is joint work in progress with Han-Bom Moon and Luca Schaffler.