

BERNOULLIS TAFELRUNDE

GRADUATE STUDENT SEMINAR

Wednesday, 17 May 2023, 12:15–13:00
Seminarraum 05.002, Spiegelgasse 5

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A new divisor in the moduli space of cubic fourfolds

ABSTRACT

One of the main open problems of Birational Geometry is to determine the rationality of the cubic hypersurfaces in \mathbb{P}^5 , the so-called cubic fourfolds: to date there are few explicit results and several conjectures, but no universal criteria. After an overview of the state of the art of the problem on the complex field \mathbb{C} , we present a new geometric construction of a divisor in the moduli space of cubic fourfolds which could represent a significant contribution in this general discussion.