

BERNOULLIS TAFELRUNDE

GRADUATE STUDENT SEMINAR

11 November, 12:15-13:00
Grosser Hörsaal, Mathematisches Institut

CHRISTIAN URECH

Universität Basel

On the Cremona Group

ABSTRACT

The Cremona group is the group of all birational transformations of projective space. An element of it is an invertible transformation defined by polynomials. In dimension two this group was already studied intensely in the 19th century by the Italian school of algebraic geometry, though many classical problems were only solved very recently. The Cremona group in higher dimensions still remains poorly understood.

The aim of this talk is to give an accessible introduction to this fascinating group and to provide a glimpse into its rich structure and long history. No prerequisites in algebraic geometry are assumed.