

BERNOULLIS TAFELRUNDE

GRADUATE STUDENT SEMINAR

Thursday, 10th October 2019, 12:15-13:00

Seminarraum 05.002, Spiegelgasse 5

ANNA BOT

ETHZ

Blowing up and automorphisms on a blow-up

ABSTRACT

What is a blow-up of \mathbb{P}^2 in finitely many points? Can we explicitly describe the automorphism group of such a blow-up? And what if we choose the points to lie on an irreducible cubic curve? In this talk, which is based on my Master's thesis, we will explore these questions. Afterwards, we will use this framework to understand cubic involutions centred at a point in \mathbb{P}^2 , and find out why they could be useful.