

## **THE CREMONA GROUP OVER IMPERFECT FIELDS**

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In this talk I will present a joint project with Fabio Bernasconi, Julia Schneider and Susanna Zimmermann aimed to extend some structural results on the rank-two Cremona group to the case of imperfect fields. Our motivation comes from the study of algebraic subgroups of the rank-three Cremona group over algebraically closed fields and our approach is birational geometric: our strategy requires a careful study of the Sarkisov program for rational surfaces over imperfect fields.