

BIRATIONAL MAPS OF SEVERI-BRAUER SURFACES, WITH APPLICATIONS TO CREMONA GROUPS OF HIGHER RANK

JULIA SCHNEIDER

The group of birational transformations of the projective n -space over a field K is called 'Cremona group of rank n over K '. We show that any group (of cardinality at most the cardinality of the complex numbers) is a quotient of any Cremona group of rank at least four over the complex numbers. This result is obtained via birational geometry of Severi-Brauer surfaces over perfect fields.