Simple subgroups of the plane Cremona group

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Oberseminar Köln, 11.12.2018

The plane Cremona group is the group of birational transformations of the complex projective plane. It was already studied intensely in the 19th century, but many classical problems have only been solved in the last decades. In this talk I will give a description of all simple subgroups of this group using techniques from birational geometry, geometric group theory and dynamics.