Bernoullis Tafelrunde

Graduate Student Seminar

19 April 12:15-13:00
Virtual Seminar

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About some subgroups of the De Jonquières Group

Abstract

The Cremona group of the plan is the group of all birationnal maps of the plane. The De Jonquières group is an important subgroup of the Cremona group, it is the group of all maps preserving a pencil of lines through a point. In this seminar we will study some subgroups of the De Jonquières group. We will study p-elementary finite subgroups of the De Jonquières group, i.e. subgroups isomorphic to a $(\mathbb{Z}/p)^r$, where p is a prime number and r is an integer. We will try to give a list of representants of conjugacy classes of such groups in the De Jonquières group, and we will give sine qua non conditions describing when two such subgroups are conjugated.

If there is time remaining, we will also talk about conjugation of such groups in the Cremona group.