

BERNOULLIS TAFELRUNDE

GRADUATE STUDENT SEMINAR

12 April 12:15-13:00

Virtual Seminar

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On Arithmetic Dynamical Systems

ABSTRACT

Arithmetic dynamics is a field that integrates two areas of mathematics, dynamical systems and number theory. In this Seminar we will talk about arithmetic dynamical systems, passing through some definitions of projective space of dimension one, and what the relation between the projective space and rational field, also we will answer some question about what we mean by the dynamical system, and what is the periodic points and its type, in addition to giving some examples of endomorphisms that have periodic points of a different type, we will focus on the examples on endomorphisms of degree two and three.