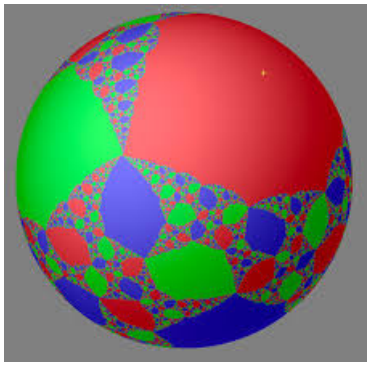
Oberseminar Geometrie
Department of Mathematics
University of Fribourg
Lecture room 2.52 Physics
Wednesday December 14, 2022, 10:20



Annina Iseli (UniFR)

The Hurwitz problem and rational portraits

Given a rational map on the Riemann sphere, one can extract different types of combinatorial or dynamical data. On the other hand, given an abstract set data, one can ask whether there exists a rational map realizing it. For one specific type of (non-dynamical) data, this question is known as the Hurwitz problem (around 1890). In the recent past (1990-2022), there has been very enlightening work on dynamical variants of this problem by various authors. In this talk, I will present some of the historic and recent results and talk about work in progress joint with Jeremy Kahn.