
BERN-FRIBOURG GRADUATE SEMINAR

a seminar for Master and PhD students

Wednesday 15th March, 2023: 17:15 - 18:00

Room 2.73, Perolles 08, Fribourg

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Conformal maps in Euclidean spaces

Abstract

Joseph Liouville proved in 1850 that if $n \geq 3$, every conformal map from a domain $D \subset \mathbb{R}^n$ is a similarity. The challenge became then to prove the same statement with relaxed notions of conformality. Some time later George D. Mostow pointed out that the case $D = \mathbb{R}^n$ is much easier.

In this talk we will present a sketch of the proof given by Pekka Tukia and Jussi Väisälä which holds for 1-quasiconformal maps and it is also valid for \mathbb{R}^2 .