Bern-Fribourg Graduate Seminar

a seminar for Master and PhD students

Thursday 29th September, 2022: 17:15 - 18:00

Room B5, Exakte Wissenschaften, Bern

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Quasiconformal uniformization and reciprocal metric spaces

Abstract

It is a well-known result that any simply connected Riemann surface is conformal to $\mathbb{D}$, $\mathbb{C}$ or $\mathbb{S}^2$. It is interesting to study which parametrisations we can expect for metric spaces X which are homeomorphic to a surface but not neccessarily smooth. We will see which assumptions on the space X can guarantee the existence of a quasiconformal almost parametrisation and study so-called reciprocal metric spaces.