

Seminarium geometrów

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Poniedziałek, 13.01.2025, 14:15 WS

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Taut smoothings and shortest geodesics

Abstract: In this talk we will discuss the connection between combinatorial properties of minimally self-intersecting curves on a surface S and the geometric behaviour of geodesics on S when S is endowed with a Riemannian metric. In particular, we will explain the interplay between a smoothing, which is a type of surgery on a curve that resolves a self-intersection, and k -systoles, which are shortest geodesics having at least k self-intersections, and we will present some results that partially elucidate this interplay.

streaming via ZOOM:

Meeting ID: 967 6507 7409

Meeting password: “GS” (two letters) followed by the Euler characteristic of the closed orientable surface of genus 89.