

BERNOULLIS TAFELRUNDE

GRADUATE STUDENT SEMINAR

Thursday, 15 October, 12:15-13:00
Seminarraum 00.003, Spiegelgasse 1

LENA FRENKEL

Université de Strasbourg

Area formula for Hyperbolic Triangles and Lexell problem

ABSTRACT

My talk will be about an area formula in terms of side lengths for triangles in plane hyperbolic geometry and its geometrical interpretation. The proof of this formula is analogous to a proof given by Leonhard Euler in the spherical case. I will speak in particular about the Lexell problem, that is, the problem of finding the locus of vertices of triangle of fixed area and fixed base.