



*Institute of Mathematical Research
Department of Mathematics*

GEOMETRY SEMINAR

Kulikov Surfaces : Their Construction and Invariants

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Date: January 7, 2015 (Wednesday)

Time: 2:30 – 3:30pm

Venue: Room 210, Run Run Shaw Bldg., HKU

Abstract

A Kulikov surface is a surface of general type with $p_g = 0$ and $K^2 = 6$, constructed by Kulikov as a $(\mathbb{Z}/3)^2$ -cover branched over 6 lines in the projective plane. Using Pardini's theory of abelian covers, one can compare it with the Inoue-type construction and calculate its fundamental group. It turns out this type of surfaces form a connected component in the moduli space.

All are welcome