



ODTU-Bilkent Algebraic Geometry

Topology of Real Schläfli Six-Line Configurations on Cubic Surfaces and in RP³

By

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Abstract: A famous configuration of 27 lines on a non-singular cubic surface in CP³ contains remarkable subconfigurations, and in particular the ones formed by six pairwise disjoint lines. We will discuss such six-line configurations in the case of real cubic surfaces from topological viewpoint, as configurations of six disjoint lines in the real projective 3-space, and show that the condition that they lie on a cubic surface implies a very special property which distinguishes them in the Mazurovskii list of 11 deformation types of configurations formed by six disjoint lines in RP³.

This is joint work with Sergey Finashin.

Date: 19 March 2021, Friday

Time: 15:40

Place: Zoom

To request the event link, please send a message to sertoz@bilkent.edu.tr