ODTU-Bilkent Algebraic Geometry

"Loops in moduli spaces of real plane projective sextics"

By

Ayşegül Öztürkalan
(Abdullah Gül University)

Abstract: The space of real algebraic plane projective curves of a fixed degree has a natural stratification. The strata of top dimension consists of non-singular curves and are known up to curves of degree 6. Topology and, in particular, fundamental groups of individual strata have not been studied systematically. We study the stratum formed by non-singular sextics with the real part consisting of 9 ovals which lie outside each other and divide the set of complex points. Apparently this stratum has one of the most complicated fundamental groups. In the talk I will study its subgroups which originate from spaces of linear equivalent real divisors on a real cubic curve and tell the connections.

Date: 24 April 2020, Friday
Time: 15:40 +

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