



ODTU-Bilkent Algebraic Geometry

“Infinitesimal regulators”

By

Sinan Ünver
(Koç)

Abstract: We will describe a construction of infinitesimal invariants of thickened one dimensional cycles in three dimensional space, which are the simplest cycles that are not in the Milnor range. The construction also allows us to prove the infinitesimal version of the strong reciprocity conjecture for thickenings of all orders. Classical analogs of our invariants are based on the dilogarithm function and our invariant could be seen as their infinitesimal version. Despite this analogy, the infinitesimal version cannot be obtained from their classical counterparts through a limiting process.

Date: 23 October 2020, Friday

Time: 15:40

Place: Zoom

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