

現代代数学と異分野連携研究部門 講演会

Lecture – Division of Modern Algebra and Cooperation with Engineering –

講演者 (Speaker)	Gebhard Martin (Technical University of Munich)
題目 (Title)	Classification of Enriques surfaces with finite automorphism groups in characteristic 2
日時 (Date)	2017, May 18th (Thu.), 15:00–17:00
場所 (Venue)	Seminar Room, Math. Dept. (Bldg. 4, 3F.)

概要 (Abstract)

Enriques surfaces with finite automorphism group over the complex numbers have been classified explicitly by S. Kondo and in terms of their root invariants by V.V. Nikulin. There are seven types which can be distinguished by their configurations of smooth rational curves. While a similar classification holds true in positive characteristic as long as the K3 cover of the Enriques surface is smooth, the situation changes for classical and supersingular Enriques surfaces in characteristic 2. There are 5 (resp. 8) types of supersingular (resp. classical) Enriques surfaces with finite automorphism group. I will explain how to obtain the classification by using the singularities of the canonical cover to determine the possible configurations of (-2) -curves on such surfaces. Moreover, the idea of construction will be illustrated. This is a joint work with T. Katsura and S. Kondo.

東京理科大学工学部数学教室
〒278-8510 千葉県野田市山崎 2641
(東武アーバンパーク線 運河駅下車徒歩 5 分)