

**ON REGULAR SURFACES OF GENERAL TYPE WITH NUMERICALLY
TRIVIAL AUTOMORPHISM GROUP OF ORDER 4**

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Time: Wed, Dec. 28, 14:00-15:45

Venue: Tencent Meeting 817 801 521

Abstract:

An automorphism of a smooth complex projective variety is called numerically trivial if it induces the trivial action on the cohomology groups with rational coefficients. We denote by the group of such automorphisms. For algebraic curves, coincides with the identity component of . The situation is more complicated for algebraic surfaces. Nevertheless, Jin-Xing Cai proved that if is a surface of general type with . Irregular minimal surfaces of general type with turns out to be isogenous to a product of curves by a previous joint work with Jin-Xing Cai. In this talk, I will present some examples of regular surfaces of general type with , as well as some work in progress towards a classification similar to the irregular case. This is a joint work with Professor Jin-Xing Cai.