



Leibniz
Universität
Hannover

Oberseminar Zahlentheorie und Arithmetische Geometrie

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Weil classes and decomposable abelian fourfolds.

This is a joint work in progress with Domenico Valloni. Let X be a complex K3 surface with an Enriques quotient S . It is known that the Brauer group of S has a unique non-zero element. Beauville gave a criterion for the natural map from $\text{Br}(S)$ to $\text{Br}(X)$ to be injective. Extending a result of Keum, who proved that every Kummer surface has an Enriques quotient, we show for an arbitrary Kummer surface X that every element of $\text{Br}(X)$ of order 2 comes from an Enriques quotient of X . Work of Ohashi implies that in some ‘generic’ cases this gives a bijection between the set of elements of order 2 in $\text{Br}(X)$ and the set of Enriques quotients of X .

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Alle Interessierten sind herzlich eingeladen.