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Addition of Brauer classes via Picard schemes. (English) Zbl 07413129 J. Algebra 589, 105-113 (2022)

Summary: We give an explicit way to construct a Brauer-Severi variety corresponding to the sum of the two Brauer classes that split by a common Galois extension. We apply the result to explicitly calculate the components of Picard schemes for stable curves with geometrically rational components.

MSC:
16K20 Finite-dimensional division rings
14F22 Brauer groups of schemes
14H05 Algebraic functions and function fields in algebraic geometry
14H40 Jacobians, Prym varieties

Keywords:
Brauer-Severi varieties; addition

Full Text: DOI

References:

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