

ALGEBRA
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On the signature of a quadratic form

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Abstract: The signature of a quadratic form plays an important role in the study of quadratic forms in a Witt group. For any algebraic variety X over the real numbers \mathbb{R} , it allows one to relate quadratic forms over X to the singular cohomology of the real points $X(\mathbb{R})$. This has applications to bounding the order of torsion in the Witt group of quadratic forms over X .

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MATHEMATICS AND COMPUTER SCIENCE
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