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Title: Decomposition in the period space of Enriques
surfaces

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Abstract:

Reflection walls of certain primitive vectors in the anti-invariant sublattice of the $K3$ lattice define Heegner divisors in the period space of Enriques surfaces. We show that depending on the norm of these primitive vectors, these Heegner divisors are either irreducible or have two components. The two components are obtained as the walls orthogonal to primitive vectors of the same norm but of different type as ordinary or characteristic. (Joint work with Caner Koca)