

## Hodge structure of O'Grady's singular moduli spaces

VALERIA BERTINI AND FRANCO GIOVENZANA

**Abstract.** We investigate the Hodge structure of O'Grady's singular six- and ten-dimensional examples of irreducible symplectic varieties. In particular, we compute some of their Betti numbers and their Euler characteristic. As a consequence, we deduce that these varieties do not have finite quotient singularities, answering a question of Bakker and Lehn.

**Mathematics Subject Classification (2020):** 32J27 (primary); 32S15 (secondary).