Turkish Journal of Mathematics

Turkish Journal

of

Mathematics

Keywords
Authors

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Complex Conjugation Equivariant Topology of Complex Surfaces

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Abstract: Suppose X is a non-singular complex surface defined over \R, which is a complete intersection constructed by the method of a small perturbation, and Y=X/\conj is its quotient by the complex conjugation \conj\: X\to X. Assume that \conj has a fixed point. Then Y is completely decomposable, i.e., splits into a connected sum $\#_n \mathbb{C}p^2\#_m \overline{\mathbb{C}P}^2$ or $\#_n(S^2\!\times\! S^2)$.

Turk. J. Math., **21**, (1997), 119-127.
Full text: pdf
Other articles published in the same issue: Turk. J. Math.,vol.21,iss.1.