USING FLOER'S EXACT SEQUENCE TO COMPUTE DONALDSON INVARIANTS

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Abstract

The Donaldson Invariants of a 4-Manifold are very hard to computer, consequently there are very few examples where they are known. Some progress have been made by Kronheimer-Mrowka in order to describe Universal Relations among the Invariants in terms of the structure of a analytic function defined on the 2-dimensional Cohomology group of the Manifold.

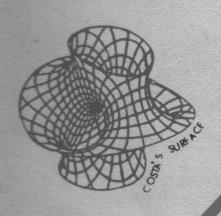
Although Donaldson Invariants have remained misterious, they have been very useful to the understanding of the amooth structures on closed 4-Manifolds. Thus, the need to describe the structure of these Invariants became important. Some techniques have been developed to understand the Invariants. We would like to focus the method of the Floer's Exact Sequence as it has been done by Fintushel-Stern on the K3-Surface. The method relies on Kirby Calculus and it is still missing a methodic way of decomposing the 4-Manifold in a apropriated way to apply the sequence.

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ABSTRACTS

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