

1147-53-159

**Nicoletta Tardini\*** ([nicoletta.tardini@gmail.com](mailto:nicoletta.tardini@gmail.com)). *Relative Čech-Dolbeault homology and applications.*

We define the relative Dolbeault homology of a complex manifold with currents via a Čech approach. This definition is then used to compare the relative Dolbeault cohomology groups of two complex manifolds of the same dimension related by a suitable proper surjective holomorphic map. Finally, an application to blow-ups is considered. (Received January 05, 2019)