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Mathematics > Differential Geometry

pseudomanifolds

Hodge theorems for stratified

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riemannian metrics over its regular part, we study the relationships between the L^{2} de Rham and Hodge cohomology and the intersection cohomology of \$X\$ associated to some perversities. More precisely, to a kind of metric which we call \emph{quasi edge with weights}, we associate two general perversities in the sense of G. Friedman, $p_{g}\$ and its dual $q_{g}\$. We then show that the absolute L^{2} Hodge cohomology is isomorphic to the maximal $L^{2}\$ de Rham cohomology and this is in turn isomorphic to the intersection cohomology associated to the perversity q_{g} . Moreover we prove that the relative $L^{2}\$ Hodge cohomology is isomorphic to the minimal $L^{2}\$ de Rham cohomology and this is in turn isomorphic to the intersection cohomology associated to the perversity $p_{g}\$.

Given a compact stratified pseudomanifold with a Thom-Mather stratification and a class of

General perversities and L² de Rham and

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