

Residues Formulas for Logarithmic Foliations and Applications

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Resumo/Abstract:

We prove a Baum-Bott type formula for non-compact complex manifold of the form $\tilde{X} = X - \mathcal{D}$, where X is a complex compact manifold and \mathcal{D} is an analytic divisor contained in X satisfying certain mild conditions. As application, we give an optimal description of smooth hypersurfaces \mathcal{D} invariants by one-dimensional foliations \mathcal{F} on complex projective spaces such that $Sing(\mathcal{F}) \subsetneq \mathcal{D}$.