BRASSELET NUMBER AND TORIC VARIETIES

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JOINT WORK WITH LUIZ HARTMANN

We present a formula to compute the Brasselet number of $f : (Y, 0) \to (\mathbb{C}, 0)$ where $Y \subset X$ is a non-degenerate complete intersection in a toric variety X. As applications we establish several results concerning about invariance of the Brasselet number for families of non-degenerate complete intersections. Moreover, when $(X, 0) = (\mathbb{C}^n, 0)$ we derive sufficient conditions to obtain the invariance of the Euler obstruction for families of complete intersections with isolated singularity which are contained on X.

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