

# Exact algebraic restriction and classification of curves in a symplectic manifold

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## Abstract

We study the exact algebraic restriction of germs of analytic forms on the symplectic manifold  $(\mathbf{C}^{2n}, \omega)$  and classify of the curves that are symplectophormic to the curve  $\{x_1^4 + x_2^5 + x_1^2 x_2^3 = x_{\geq 3} = 0\}$ , which is non quasi homogeneous. This classification follows the ideas of Domitrz, Janeczko and Zhitomirskii in [1].

## References

- [1] Domitrz W, Janeczko S and Zhitomirskii M *Symplectic singularities of varieties: the method of algebraic restrictions*. Journal für die reine und angewandte Mathematik (Crelles Journal), v. 2008, n. 618, p. 197-235, 2008.