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On the multiplicity of a C^∞ -differential function germ

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摘要

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On the multiplicity of a C^∞ -differential function germ

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Abstract Risler & Trotman in 1997 proved that the multiplicity of an analytic function germ is left-right lipschitz invariant, which provided a partial answer to Zariski conjecture. In this note, based on the recent work of Comte, Milman & Trotman, we generalize the work of them to prove that the multiplicity of a C^∞ -differentiable function germ is also left-right lipschitz invariant.

Key words [smooth function germ](#) [multiplicity](#) [bilipschitz maps](#)

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