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Andrei Gabrielov* (gabrielov@purdue.edu), 150 N University St, West Lafayette, IN 47907-2067. *Outer metric Lipschitz classification of definable surface singularities*. Preliminary report.

We consider the problem of Lipschitz classification with respect to the outer metric of singularities of real surfaces definable in a polynomially bounded o-minimal structure (e.g., semialgebraic or subanalytic). The problem is closely related to the problem of classification of definable functions with respect to Lipschitz contact equivalence. Invariants of Lipschitz contact equivalence presented in Birbrair et al. (2017) are used as building blocks for the complete invariant of bi-Lipschitz equivalence of definable surface singularities with respect to the outer metric. This is joint work with L. Birbrair and A. Fernandes (Fortaleza, Brazil). (Received January 18, 2019)