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Bilipschitz geometry of normal complex surface singularities. Preliminary report.

Birbrair, Fernandez and Neumann have shown in a series of papers that the bilipschitz geometry of a complex singularity germ, although trivial for one-dimensional germs, is generally quite non-trivial in higher dimensions. The talk will describe phenomena that can arise (e.g., “fast cycles,” “Cheeger cycles”) and outline ongoing work of Birbrair, Neumann and Pichon towards a complete classification of possible bilipschitz geometries for normal surface singularities. (Received April 10, 2010)