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SEMINARIO DE GEOMETRÍA ALGEBRAICA

Lunes 20 de febrero de 2017, **13:00**, Seminario 238

Laurentiu Paunescu

Sidney University

Impartirá la conferencia

Level curves of an analytic function germ

Resumen.
The level curves of an analytic function germ almost always have bumps at unexpected points near the singularity. This profound discovery of N. A'Campo is fully explored in this paper for $f(z,w) \in \mathbb{C}\{z,w\}$, using the Newton-Puiseux infinitesimals and the notion of gradient canyon. Equally unexpected is the Dirac phenomenon: as $c0$, the total Gaussian curvature of $f(z,w) = c$ accumulates in the gradient canyons