

SEMINARIO DI GEOMETRIA

10 april 2019, h.15.00-16.00

Politecnico di Torino,
Dipartimento di Scienze Matematiche,

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Topological realization of varieties over $C((t))$ via log
geometry

I will describe some work in progress with Piotr Achinger about defining a Betti realization functor for varieties over the formal punctured disk $\text{Spec } C((t))$, i.e. defined by polynomials with coefficients in the field of formal Laurent series in one variable. Our construction is via good models over the power series ring $C[[t]]$ and the Kato-Nakayama construction in logarithmic geometry, that I will review during the talk.

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