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Diophantine problems for Campana pairs - 1

Wednesday, 20 July 2022 10:00 (1 hour)

I will give an introduction to Diophantine problems for Campana's theory of orbifold pairs, a theory rooted in birational geometry, of which a number of interesting arithmetic applications have emerged during the past few years; the notion of "Campana point" allows one two interpolate between the traditional notions of "rational point" and "integral point" in an interesting way. I will focus on two aspects in particular. In dimension 1, we will look at Mordell-type results for Campana pairs of general type (in particular over function fields). In higher dimensions, we will discuss Manin-type conjectures for Campana pairs of Fano type over number fields.

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