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Sets with few rational points

In the spirit of famous papers by Pila & Bombieri and Pila & Wilkie, I will explain how to bound the number of rational points, with respect to their height, in various kinds of sets, such as algebraic varieties of a given degree,
transcendental sets definable in some o-minimal (or even not o-minimal) structure over the real field, and, after joint work
with R. Cluckers and F. Loeser, also definable sets in non-archimedean contexts.

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