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A consequence of the canonical base property

A stable theory of finite rank is said to have the Canonical Base Property (CBP) if for any stationary type p , the type of the canonical base of p over a realisation of p is (almost) internal to the collection of all non-modular minimal types. No examples of the failure of CBP are known. Inspired by the model theory of compact complex manifold, but working in an arbitrary complete stable theory T of finite rank with the CBP, we give a geometric characterisation of when a stationary type is internal to the collection of all non-modular minimal types. Our characterisation is based on, and partially recovers, Campana's "second algebraicity criterion" from complex analytic geometry.

This is joint work with Anand Pillay.