

1046-00-107

**Rahim Moosa\***, University of Waterloo, Department of Pure Mathematics, 200 University Avenue West, Waterloo, Ontario N2L 3G1, Canada. *Jet spaces and the Zilber dichotomy.*

In 2002, abstracting from a theorem in complex-analytic geometry, Anand Pillay introduced a certain model-theoretic condition, called the canonical base property (CBP), which is conjectured to hold in finite-rank theories. This condition is interesting because it provides a direct proof of the Zilber dichotomy in certain geometric contexts. What seems to be required in establishing the CBP in any given situation is an appropriate notion of "jet space". In my talk I will explain this circle of ideas and discuss recent developments. (Received September 09, 2008)