

Trivial observations about the André-Oort conjecture

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Abstract: Y. André and F. Oort have raised a conjecture about subvarieties of Shimura varieties containing a dense set of special points in analogy with the Manin-Mumford conjecture for abelian varieties. The model theoretic methods applied to this latter problem are not strictly relevant as the corresponding sets defined in difference fields have trivial forking. However, the model theory of difference fields and general stability theory still have some consequences for the André-Oort conjecture. We describe some of these consequences, including uniformity and p -adic fibred version for subvarieties of universal abelian schemes.