

Countable elementary extensions

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Fix a countable first-order structure M . We say that two elementary extensions of M are isomorphic over M , if there is an isomorphism fixing M pointwise. Pillay conjectured that the number of (nonisomorphic) countable extensions is always infinite. We shall discuss the possible proof and related problems on minimal structures. (A first-order structure is minimal if its definable subsets, with parameters, are exactly finite and co-finite subsets).