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Ali Valizadeh* (valizadeh.ali@aut.ac.ir), 404 Hafez Ave., Amirkabir Univ. of Tech.,
Department of Math. & Comp. Sciences, Room 338, 15875-4413 Tehran, Tehran, Iran, and
Massoud Pourmahdian. *Quantifier Elimination for an Unstable Generic Structure.*

Let L be a language with one ternary relation R . We define a function called predimension on any finite structure in this language in the following way:

$$\delta(A) = |A| - |R^A|.$$

We also define the notion of strong (or closed) embedding for two finite structures of this language as follows: $A \leq^* B$ iff $A \subseteq B$ and for every B' between A and B and not equal to A we have:

$$\delta(A) < \delta(B').$$

The class of all finite L -structures (including the empty set), in which empty is closed, has the amalgamation, joint embedding, and hereditary property; hence, it has a generic model M using the results of Fraïssé and Hrushovski.

We know that M is unstable and undecidable. We will prove for this structure a quantifier elimination up to certain formulas called closure formulas. This result could also be used to answer the question of finite model property for this structure. (Received September 16, 2014)