1125-VJ-2308 **Cyrus F Nourani** (acdmkrd@gmail.com) and **Patrik Eklund*** (peklund@cs.umu.se), Umea, Sweden. *Term Functors and Signature Product Models: A Brief.* Preliminary report.

Theorem 1 (Nourani 2014) There is a generic functor on the category the omitting n-types realizing a direct product model. Let us forward with n-types and positive local realizability. The set of all complete ntypes over T is denoted n(T). Newer areas are term functors direct product algebra category; Objects are term functors and morphims are natural trasnformations on representation preshives (Nourani 2006). Let us call these nD-type embedding categories, or F-Type categories. Theorem 2 There are embedding functors from F-Type to the direct product category realizing a filter for the product algebra trees on nDtypes. Let there be a functor category defined on power set (T<Sigma >). T(Sigma) is the free trees on signature Sigma.This can be glimpsed with a monoidal category. The adjunction is with the n-type product signature category, natural transformations Hom funtors and left adjoint forget full functors category to the n type product signature category. The adjunction functors being the functor F, forgetful to the product signature n-type category with G the embedding functor from the n-type category on the product tree signatures to the Powerset category. Proposition F.G is a Monad on pair product signature n-type. Remark : The above is a filter monad. (Received September 21, 2016)