

NON-FORKING W-GOOD FRAMES

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The central notion of Shelah's book on AEC's is that of a good λ -frame, which is a forking-like notion for types of singletons in abstract elementary classes. In this talk, we will introduce the weaker notion of a w-good λ -frame. We show that the existence of a w-good frame implies the existence of larger models and show how to extend w-good frames under tameness and amalgamation. As an application (under some cardinal arithmetic hypothesis) we construct a model of size λ^{+++} under the assumption of λ and λ^+ categoricity, few models in λ^{++} and (λ, λ^+) -tameness.