Introduction to forking in Abstract Elementary Classes

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The central notion of Shelah's book on Abstract Elementary Classes [Sh:h] is the notion of a good λ-frame. It is a forking like notion for types over models of size λ and the existence of it implies that the class is well-behaved in λ. In this series of talks we will focus on the question of the existence of extensions to models of size greater than λ. We will prove that under some reasonable hypothesis it is always possible to extend a frame. One interesting corollary of this is the existence of arbitrary large models, this is done within ZFC. The first couple of lectures will be based on [Sh:h] Chapter II, while our main theorem is the main theorem of [Bon14a].

Referencias

[Sh:h] Saharon Shelah, **Classification Theory for Abstract Elementary Classes**, vol. 1 & 2, Mathematical Logic and Foundations, no. 18 & 20, College Publications, 2009.

[Bon14a] Will Boney, *Tameness and extending frames*, Journal of Mathematical Logic **14**, no. 2