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A simpler axiomatization of the Spencer-Shelah almost sure theories

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Shelah and Spencer proved that when α is irrational in $(0, 1)$ there is an almost sure theory T of random graphs of size n , when the edge probability is $n^{-\alpha}$. Somewhat later, Baldwin observed that the same theory T can be visualized as the theory of a generic object of a generalized Fraïssé construction.

We give an AE axiomatization of T and examine other countable models of T . Somewhat surprisingly, even though it can be uniquely characterized as being a Fraïssé limit, the generic does not appear to be any particularly ‘special’ model of T .

We will also discuss applicability of these methods to other Fraïssé constructions.