SMALL EXTENSIONS OF MODELS OF *o*-MINIMAL THEORIES AND ABSOLUTE HOMOGENEITY

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We obtain some results on existence of small extensions of models of weakly *o*-minimal atomic theories. In particular, we find a sharp upper estimate for the Hanf number of such a theory for omitting an arbitrary family of pure types. We also find a sharp upper estimate for cardinalities of weakly *o*-minimal absolutely homogeneous models and a sufficient condition for absolute homogeneity.

Key words and phrases: weakly *o*-minimal theory, small extension of a model, homogeneous model.

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