

RANK FUNCTIONS FOR STABLE DIAGRAMS

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Let D be the diagram of a sufficiently homogeneous model. For types that are realized in this model, we introduce certain rank functions and prove the following assertions: (1) If, for each type, the rank is less than ∞ then the diagram is stable; (2) if the diagram D is stable then the set of non-algebraic types of rank less than ∞ is large enough.

Key words and phrases: homogeneous model, rank, stable diagram.

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