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A categorical road to decidability

It is well known that quantifier elimination plays an important role in proving decidability of a first-order theory using either proof-theoretic or model-theoretic techniques. After providing an overview of the relevant results, a one-step construction is proposed for proving quantifier-elimination adopting a model-theoretic standpoint. Several illustrations are provided.

*Joint work with João Rasga and Amílcar Sernadas.