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Restricted quivers in the classification theory of real division algebras

The category of finite-dimensional real division algebras (not necessarily associative) is denoted by \mathcal{D} . Several important subcategories of \mathcal{D} have been shown to be equivalent to representation categories of restricted quivers (Q, R) — that is to certain subcategories of $rep_{\mathbb{R}}(Q)$ — for different quivers Q and sets of restrictions R.

We give some examples, and treat a subcategory of $rep_{\mathbb{R}}(Q)$, Q being the single loop quiver, from which a classification of all finite-dimensional real flexible quadratic division algebras is obtained.