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Extending partial isometries of antipodal graphs

A structure B is an *EPPA-witness* for a structure A if $A \subseteq B$ and every isomorphism of finite substructures of A extends to an automorphism of B . A graph G is *metrically homogeneous* if its path-metric space is an EPPA-witness for itself. Cherlin gave a list of such graphs (by describing the classes of finite subspaces of their path-metric spaces) and Aranda et al. determined the existence of EPPA-witnesses for almost all such classes. We resolve the remaining cases. Our result should be seen as the first application of a general method for bypassing the lack of automorphism-preserving completions.