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Elementary end-extensions via Vaughtian pairs

I will present a result about the existence of Vaughtian pairs (for any structures with a certain orthogonality feature) that yields, as a special case, the well-known existence of elementary end-extensions for linear orderings without endpoint (in a language with arbitrarily many unary predicates). Given the very general form of the result, the question arises of what other cases it could be applied to.