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University of Notre Dame, Notre Dame, IN 46617. *Transferring relative categoricity from linear
orders to algebraic structures.*

In 1974, Nurtazin characterized all computably categorical decidable structures in a complete theory. It implies, that in the class of Real Closed Fields (RCF), only those structures with finite transcendence degree are computably categorical. In 2004, Calvert showed that an archimedean real closed field is Δ_2^0 categorical. Melnikov [2010], showed that categoricity results can be transferred from linear orders to abelian groups. Using some of his techniques, we are able to transfer the results from linear orders to real closed fields and explore how it may lead to a more general result. (Received August 23, 2013)