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Alf Dolich* (dolicha@math.mcmaster.ca), McMaster University, Department of Math and Stats, Hamilton, ON L8S 4K1, Canada. *On Model Theoretic Properties of Structures Expanding Dense Linear Orderings.*

Given a structure R expanding a dense linear ordering we consider how various model theoretic properties of R or its theory influence the "tameness" of the definable subsets of R and vice versa. Properties we consider are for example algebraic closure satisfying the exchange property or strengthenings of the independence property. (Received February 13, 2006)