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H. Jerome Keisler* (keisler@math.wisc.edu). *Definability and Independence in Randomizations.*

This is joint work with Uri Andrews and Isaac Goldbring. The randomization of a complete first order theory T is the complete continuous theory T^R with two sorts, a sort for random elements of models of T , and a sort for events in an underlying probability space. We study definability and independence in models of T^R . (Received September 06, 2014)