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C T Chong* (chongct@math.nus.edu.sg), Department of Mathematics, National University of Singapore, 117543, Singapore. *Lowness properties for randomness in higher recursion theory.*

The talk is based on joint work with Andre Nies and Liang Yu. We study various randomness notions in higher recursion theory and establish their relative strengths. We characterize the set of reals that are low for Δ_1^1 randomness as precisely those that are Δ_1^1 -traceable, and show that there is a perfect set of such reals. (Received September 06, 2006)