Speaker: Quinn Culver  
University of Notre Dame  

Thursday, September 11  
3:00 PM  
125 Hayes-Healy Hall  

Title: Algorithmically Random Measures  

Abstract:  

We define a natural, computable map that associates to each real a Borel probability measure on Cantor space, so that we can talk about Martin-Löf random measures, the images of the Martin-Löf random reals. We show that such random measures are atomless yet mutually singular with respect to the Lebesgue measure. We show also that any two relatively random measures share a random real, yet are mutually singular. We finish with some miscellaneous results and some open questions.