



Speaker: Linda Brown Westrick
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Thursday, November 30, 2017

2:00 PM

125 Hayes-Healy Hall

Title: Towards a notion of computable reducibility for discontinuous functions

Abstract:

If X and Y are computably presented Polish spaces, the collection of all functions from X to Y has cardinality too large to allow such functions to be represented as elements of Baire space. Nevertheless, we have some intuitive idea of what it should mean for one discontinuous function to compute another. I will discuss the problem of defining an appropriate notion of computable reducibility on this space. Joint work with Adam Day, Rod Downey and Takayuki Kihara.