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**Speaker:** Douglas Ulrich  
University of Maryland

Tuesday, February 27, 2018

2:00 PM

125 Hayes-Healy Hall

**Title:** Borel complexity of torsion-free Abelian groups

**Abstract:**

It is an open problem if TFAG (torsion-free abelian groups) are Borel complete. In recent joint work with Shelah, we show that if certain large cardinals fail, then well-founded trees are Borel reducible to TFAG. I describe some aspects of the proof, and also the status on attempting a converse: under large cardinals, must TFAG not be Borel complete?