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**Speaker:** Jonny Stephenson  
Valparaiso University

Tuesday, April 21, 2015  
2:00 PM  
125 Hayes-Healy Hall

**Title:** Effective packing dimension and array noncomputability

**Abstract:**

Effective notions of dimension are a well-studied area at the intersection of computability and complexity. I will briefly introduce both effective Hausdorff dimension and effective packing dimension. A common theme which occurs when studying effective packing dimension is that many phenomena can be observed and constructions carried out below precisely those degrees which are array noncomputable. I will mention some of these, including a recent result of my own.