

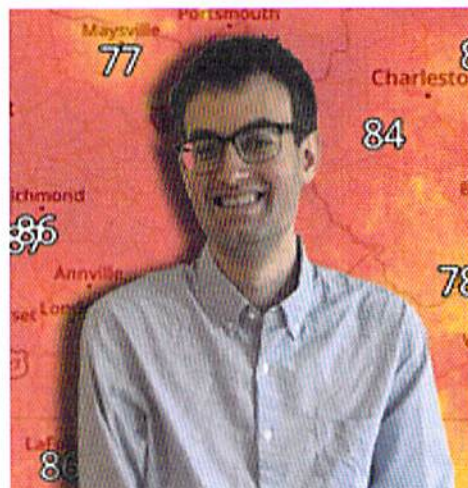
## *TOPOLOGY SEMINAR*

**Guest Speaker: Jeremy Hahn**  
**MIT**

**Date:** Tuesday, April 16, 2019

**Time:** 2:30 PM

**Location:** 258 Hurley Hall



**Lecture Title:**  
**Even Spaces and Snaith Constructions**

### *Abstract*

Talk I: 2:30-3:30

Talk II: 4:00-5:00

Call a CW-complex even if it has only even-dimensional cells and even-dimensional homotopy groups. An example is the infinite complex projective space  $CP^\infty$ , which has only a single non-zero homotopy group in dimension 2. I will survey work of Wilson that classifies all even spaces, as well as work of Hill and Hopkins that classifies certain group actions on even spaces. I will then explain work of myself and Allen Yuan that extracts cohomology theories out of even spaces, the prototype of which is Snaith's construction of complex K-theory from  $CP^\infty$ .