You are invited to join us for a department colloquium:

**Title:** Algebraic structures ex nihilo

**Speaker:** John Terilla, Queens College

**Date:** Tuesday, October 19th, 12:15–1:05.

**Location:** Kiely 273

**Abstract:** Some very interesting algebraic structures found in topology, geometry, and quantum physics can be described in an efficient two step process. Step 1 is an algebraic preliminary that amounts to building structures out of nothing. Step 2 involves turning on Planck’s constant. I’ll explain these two steps and give a couple of examples.

For more information and upcoming speakers, visit [www.qc.cuny.edu/mathcolloq](http://www.qc.cuny.edu/mathcolloq). Contact [scott.wilson@qc.cuny.edu](mailto:scott.wilson@qc.cuny.edu) to speak in the colloquium or to be added to the mailing list.