

**The University of Chicago**  
**ALGEBRAIC GEOMETRY SEMINAR**

Tuesday, October 20<sup>th</sup>, 2015  
5:30 – 7:00 pm, Eckhart 312

Sergey Galkin  
(Moscow)

**Measurements of varieties**

I will discuss a few ways to define various rings of varieties and rings of categories, and how to introduce algebraic operations on these rings. These rings can be thought as decategorifications of the respective categories, and some of them possess natural algebraic operations which can be recategorified. It is possible to prove identities in these rings, which might be powerful enough to answer geometric questions. This talk is based on joint work with Evgeny Shinder.