

# ***ALGEBRAIC GEOMETRY AND COMMUTATIVE ALGEBRA SEMINAR***

**Speaker: Felix Janda**  
**University of Notre Dame**



**Date:** Thursday, March 25, 2021

**Time:** 3:00 PM

**Location:** Zoom

**Zoom URL:** [notredame.zoom.us/j/97739336655?  
pwd=QmUxd3V2Rndyd0VFNlc0RFBxK0xPQT09](https://notredame.zoom.us/j/97739336655?pwd=QmUxd3V2Rndyd0VFNlc0RFBxK0xPQT09)

**Lecture Title:**

**Tautological classes from complete intersections**

**Abstract**

The tautological ring is a certain subring of the Chow (or cohomology) ring of the moduli space of curves that contains most Chow cycles of interest. In 2004, Faber and Pandharipande proved that for any  $d$ , the cycles obtained by considering the locus of curves admitting a morphism of degree  $d$  to  $P^1$  are tautological, and asked the question whether the same is true if we replace  $P^1$  by a different variety. We will answer this question for a certain class of complete intersections in projective space. This is based on joint work with Q. Chen and Y. Ruan.