

## Algebraic K-Theory Seminar

*On t-structures on the category of perfect complexes*

Harry Smith (UIC)

**Abstract:** We will discuss classification results for t-structures on the bounded and unbounded derived categories of a Noetherian ring, identifying them with filtrations of subsets of  $\text{Spec} R$ . We will then use this to prove the non-existence of bounded t-structures on the category of perfect complexes and discuss the nature of the obstructions preventing t-structures on this category.

Wednesday, November 6 at 3:00 PM in 1227 SEO