



# Oberseminar zur Algebra und Algebraischen Kombinatorik

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**„Thick subcategories of  $d$ -abelian categories“**  
(report on joint work with Martin Herschend and Laertis Vaso)

Let  $d$  be a positive integer. The notion of  $d$ -abelian categories was introduced by Jasso. Such a category does not have kernels and cokernels, but rather  $d$ -kernels and  $d$ -cokernels which are longer complexes with weaker universal properties. Canonical examples of  $d$ -abelian categories are  $d$ -cluster tilting subcategories of abelian categories.

We introduce the notion of thick subcategories of  $d$ -abelian categories and show a classification of the thick subcategories of a family of  $d$ -abelian categories associated to quivers of type  $A_n$ .

If time permits, we will show how thick subcategories are in bijective correspondence with a particularly nice class of algebra epimorphisms.

This generalises a classic result by Geigle and Lenzing.

**Montag, 23.01.2017**  
**ab 14:00 Uhr, Raum a410**  
Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

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