

**DIETER HAPPEL**  
Fakultät für Mathematik  
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*Tilting objects in hereditary categories*

This is a report on joint work with Luise Unger

Let  $\mathcal{H}$  be a hereditary abelian category with tilting object. These categories are classified by the speaker and up to derived equivalence there are two classes; the module categories over finite dimensional algebras and the categories of coherent sheaves over a weighted projective line. In this talk we will investigate the quiver of tilting objects in the sense of Riedtmann and Schofield for the hereditary categories derived equivalent to a module category which do not have non zero proprojective objects. As a main result we show that this quiver is connected. We expect a similar result for the category of coherent sheaves.