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From Jantzen to Andersen Filtration via Tilting Equivalence

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(Submitted on 8 Nov 2010)

The space of homomorphisms from a projective object to a Verma module in category O inherits an induced filtration from the Jantzen filtration on the Verma module. On the other hand there is the Andersen filtration on the space of homomorphisms from a Verma module to a tilting module as described in [Soe07]. The tilting equivalence from [Soe98] induces an isomorphism of these kinds of Hom-spaces. We will show that this equivalence even identifies both filtrations.

Comments:15 pagesSubjects:Representation Theory (math.RT)MSC classes:17B10Cite as:arXiv:1011.1794v1 [math.RT]

Submission history

From: Johannes Kuebel [view email] [v1] Mon, 8 Nov 2010 13:16:26 GMT (14kb)

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