Bijections between indecomposable summands of basic tilting-type modules

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a joint work with

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Abstract

The results I will present are contained in two joint papers ([1] and [2]) with H. Melis Tekin Akcin. In the first part of my talk, I will describe a bijection between the indecomposable summands of two "classical" tilting modules, that is tilting modules of projective dimension at most one. This bijection fixes the common indecomposable summands and it is not necessarily unique. In the second part of my talk, I will describe a bijection between the indecomposable summands of two basic τ-tilting modules. Also this bijection fixes the common indecomposable summands.

References

[1] D'Este, G., Tekin Akcin, H. M.: A bijection between the indecomposable summands of two multiplicity free tilting modules, Bulletin of the Iranian Mathematical Society, 48 (2022), 2521-2538.

[2] D'Este, G., Tekin Akcin, H. M.: Bijections between τ-rigid and τ-tilting modules, in preparation.