

Small Orthogonal Classes Associated to Large Selforthogonal Modules

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Abstract

We describe a sufficient condition (concerning projective - injective modules and minimal left or right orthogonal classes), to obtain rather small tilting or cotilting - type modules M . More precisely, we use a kind of "cancellation" of the obvious indecomposable summands of tilting and cotilting modules. We also show that the "gap" between the left or right orthogonal classes, associated to M , and their subclasses, formed by rather special modules generated or cogenerated by M , may as small as possible.