

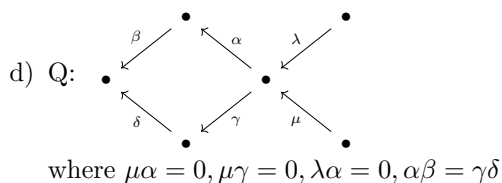
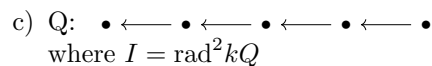
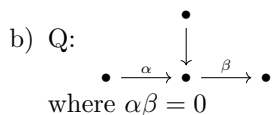
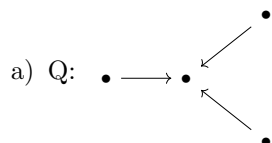
Representation Theory of Finite-Dimensional Algebras NMAG442

Exercise session 3—March 16, 2023

We work over an algebraically closed field k and with finite-dimensional modules.

Simple, projective, radical representations and projective covers.

Exercise 1. In each of the following examples, describe the simple modules, the indecomposable projectives and their radicals.



Exercise 2. Let $A = k[t]$. Show that the cyclic A -module $M = k[t]/(t^3)$ has no projective cover as an A -module.

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