,5 $\cdot \subset \cdot$ Quiver of type A3 1-loop quiver L(1) 2-Kronecker quiver K(2) M_{λ} , $k \stackrel{\lambda}{\hookrightarrow} k$ Q: 1 = 2 Homka (P(1), M.) =? Hom (S(1), P(1)) =? Homka (Mx, Mx) =? Let V be a K-linear space of finite dimension, $E(V): V \xrightarrow{IdV} V \xrightarrow{IdV} V$ be a rep of quiver $Q: \longrightarrow \longrightarrow \longrightarrow$ What is the subrepresentation of $\Phi(V)$? | M & mod (KQ/I): $Flag_3(V) = \{ o \subseteq V_1 \subseteq V_2 \subseteq V_3 \subseteq V \mid V_1, V_2, V_3 \text{ subspace } \}$ Q: 2/53 M, Sc M, Sc M, A Q: 2/53 1/4/d I = (ab - cd) P(1) = I(4)

$$rep(Q) \xrightarrow{mod(kQ)} Mod(kQ)$$

$$(V_i, V_a) \xrightarrow{mod(kQ)} \bigoplus V_i \xrightarrow{\pi_{S(a)}} V_{S(a)} \xrightarrow{V_a} V_{t(a)} \bigoplus V_i$$

 $(e_i W, a - e_{s(a)} W \rightarrow e_{t(a)} W) \leftarrow W$

Q: I = (ab - cd) Compute $Ext_{RQ/I}(S(1), S(4))$