A computational Introduction to lep Stability
Monday, February 15, 2016 4:11 PM Thm / Hib - Levre) Suppose V is f.g. (R= Q [a,b,c,d,e]) V = + Vi h i din Va eventually conside with a polynomial $\chi \sim V$ sulations (66-bc, bc-cd, cd-ce) =M Toy Roblem #1 $\frac{0}{1}$ $\frac{1}{5}$ $\frac{2}{12}$ $\frac{3}{20}$ (when $(R \oplus R \oplus R \oplus R \longrightarrow R)$ = graded module $Q[a,b,c,d,e] \longleftrightarrow QN^5 \longrightarrow End(V)$ object N Morphism Hom (m, n) = { monomial of degree n-m } Defn: Da cot, a repr of Disa funto F: D > Voit a rep of R is the same as an R-mod 14 5 < Sig in Cat Q Hom (0,5)

 $\underline{\underline{\mathcal{D}efn}} \quad M \in Mat \left(\bigoplus di, \bigoplus dj' \right) \qquad d \longmapsto \underline{\underline{Mat} \left(\bigoplus di, d \right)} \\
\underline{M} \quad Mat \left(\bigoplus dj', d \right)$

2 2 2 O (ab-bc, bc-cd, cd-de) Met (0,01) = coher of degree d

M. Mat (20202,d)

Rep Stability:

 $\chi_{0} \rightleftharpoons \chi_{1} \rightleftharpoons \chi_{2} \cdots$

HX. ZHX, ZHX,

want this to be predictable