Jim O Category
Thursday, January 21, 2016 5:11 PM

Def A ring R is dim O if every fg. R-module is first length

QS4 is a clim o ring.

(R commutative 
$$\Rightarrow$$
 dim  $\circ$  = Artinian)

Cymerate St rep.

QS4:  $\{11,3\}, \{4,2\}\}$ 
 $\{(12,34) - (12,417), (12,34) - (34,12)\}$ 

Coken  $((OS4)^{O2} \longrightarrow (OS4)^{O2}) = Module$ 

[ED-IIII] [ED-IIII]

 $(OS4)^{OS4} = (OO)$ 

So I copy of  $\Box$ 

Rep.  $(OO) = (OO) = (O$ 

$$Configuration Space \\ \mathbb{R}^{2} \qquad Thm \quad H^{2}(Conf_{n}(\mathbb{R}^{3})) = \underbrace{\langle \omega_{3} \otimes \omega_{4} \rangle}_{\langle \omega_{3} \otimes \omega_{4}, \omega_{4} \otimes \omega_{5}, \omega_{3} \otimes \omega_{4}, \omega_{4} \otimes \omega_{5}, \omega_{5} \otimes \omega_{5}, \omega_{$$

$$H^{2}\left(\operatorname{Conf}\left(\mathbb{R}^{2}\right)\right) = C_{\mathbb{F}} \oplus G_{\mathbb{F}^{n}}$$

$$d_{n} = 2\cdot\binom{n}{3} + 3\cdot\binom{n}{4}$$