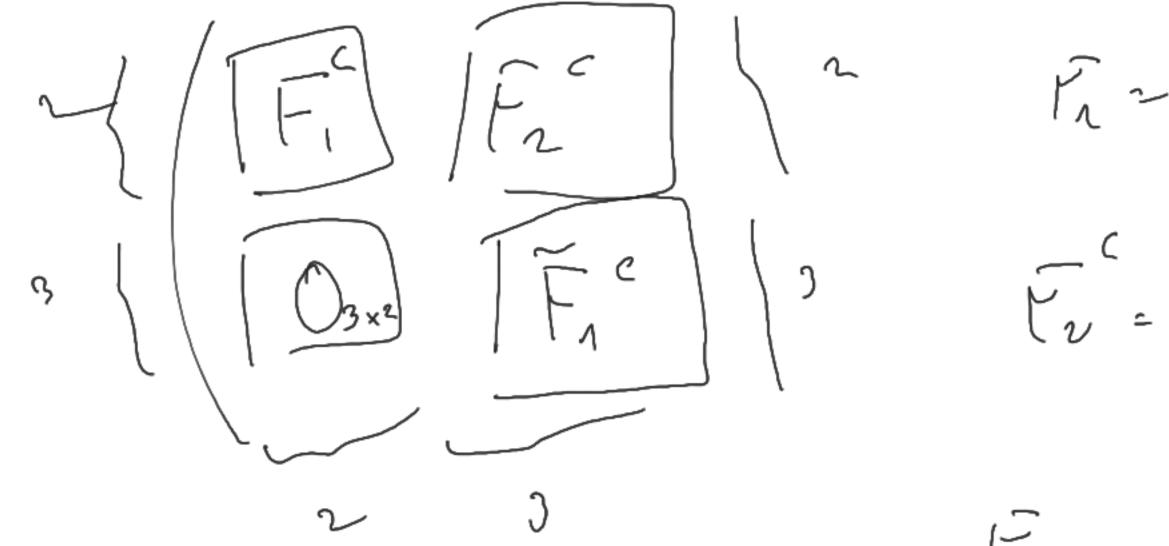
N^{22} $X = [a, b]^{T}$ $X^{\otimes 2} = [a, ab, ba, b^{2}]^{T}$ In, m: set of n-tuples of deg m(2) Tith order lex $J_{2,2} = \{(0,2) < (1,1) < (2,9) \}$ reduced

"voricbli" $1^{2} = \text{entry}, 2^{-1} \text{ edry}$ $2^{2} = \{(0,2) < (1,1) < (2,9) \}$ $2^{2} = \{(0,2) < (1,1) < (2,9) \}$ $2^{2} = \{(0,2) < (1,1) < (2,9) \}$ $2^{2} = \{(0,2) < (1,1) < (2,9) \}$ $2^{2} = \{(0,2) < (1,1) < (2,9) \}$ $2^{2} = \{(0,2) < (1,1) < (2,9) \}$ $2^{2} = \{(0,2) < (1,1) < (2,9) \}$ $2^{2} = \{(0,2) < (1,1) < (2,9) \}$ $2^{2} = \{(0,2) < (1,1) < (2,9) \}$ $2^{2} = \{(0,2) < (1,1) < (2,9) \}$ $2^{2} = \{(0,2) < (1,1) < (2,9) \}$ $2^{2} = \{(0,2) < (1,1) < (2,9) \}$ $2^{2} = \{(0,2) < (1,1) < (2,9) \}$ $2^{2} = \{(0,2) < (1,1) < (2,9) \}$ $2^{2} = \{(0,2) < (1,1) < (2,9) \}$ $2^{2} = \{(0,2) < (1,1) < (2,9) \}$ $2^{2} = \{(0,2) < (1,1) < (2,9) \}$ $F_{1} = \begin{pmatrix} 3 & b \\ 1 & -1 \end{pmatrix}$, $F_{2} = \begin{pmatrix} 0 & 0 & 0 & 1 \\ 1 & -2.2 & 61.0 \end{pmatrix}$ Non Corpund (1-1) } N=17 Return Fr RL35, L47 loop invariants XOX Z Fr ~ Fr O I + I O Fr Sum (m) const?



$$\frac{1}{2} = \left(\begin{array}{c} 1 \\ 1 \end{array} \right)$$

$$\frac{1}{2} = \left(\begin{array}{c} 0 \\ 1 \end{array} \right)$$

$$\frac{1}{2} = \left(\begin{array}{c} 2 \\ 2 \end{array} \right)$$