TD Algèbre 1811

kay des V her de dun n u & End (V)

Réduction de Tordan ... 3 base li ... En dans laquelle la $\sum_{i=1}^{n} \sum_{j=1}^{n} \chi(x) = \frac{\pi}{n} (x-k_i)^{n_i}$ $\lim_{x \to \infty} \frac{1}{n_i} = n \qquad \chi(x) = \frac{\pi}{n} (x-k_i)^{n_i}$ $\lim_{x \to \infty} \frac{1}{n_i} = n \qquad \chi(x) = \frac{\pi}{n} (x-k_i)^{n_i}$

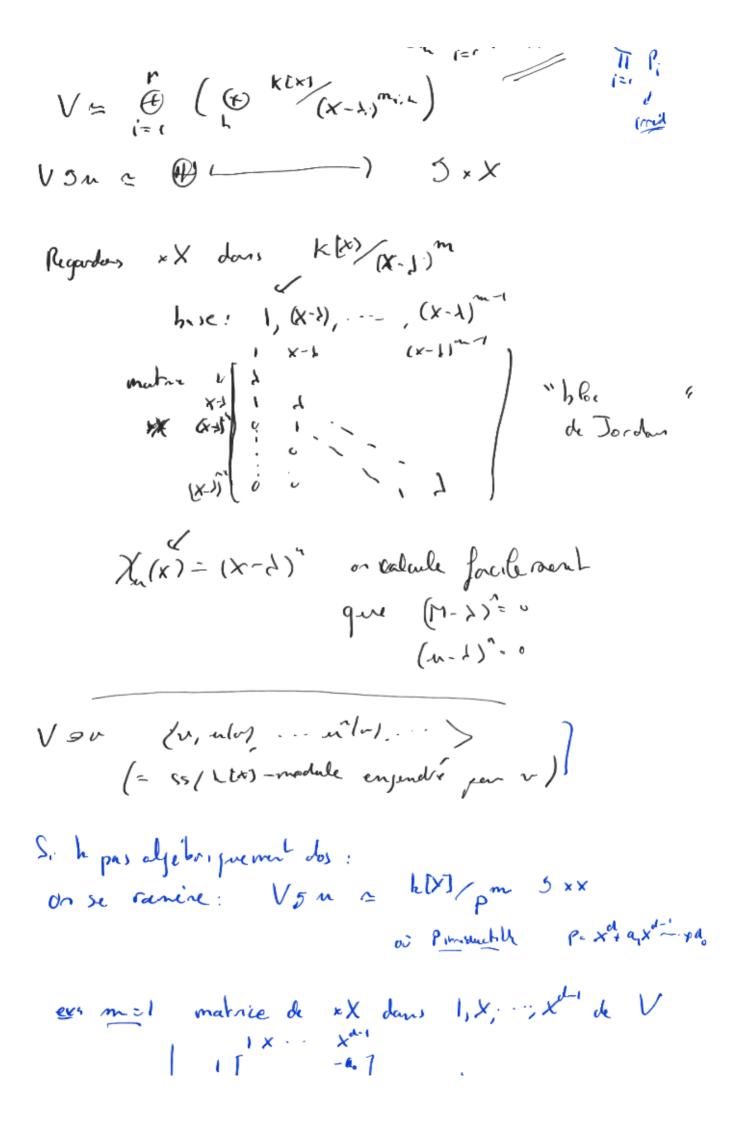
Une preme: on munit V d'une structure de KIXI-module 2) KEXT = End (V) Î morph de L-dzihres

den V (as => htx)-module de torsion

Structure des modules de torsion sur amen principal. => 3! M(=V) = A/IR I, CI. (35

Cestes chinois

Qg 1 dg -1 - -1 Qg 1 (X-7') W" $Q_i = \frac{r}{11} (x - \xi_i)^{m_{i,k}}$



On calcule $\chi_{m}(x) = P(x)$ and u mil idem matale de (x)= " = matrice corpoge de P => X (x) = P (x) and u $a_{ij} \in A$ U= (ai) "matrie univelle de laike nous - Man (Cixis) matrie Vom = (Xis) 3! Z[(X,)] ? A ((Umi) = U X,, ~ a,, \(\alpha(\chi) = \chi, 4 (Your) - Xu El Xij] whipe is $\chi_{u_{nu}}(u_{nu}) = 0$

M detype for a generaleur m, ..., man Ple univ des modules libres => 3! A" >>> M porphyse de A-nodules

m, generalars => To Surjecty. 3? 2 D [u] exempl: A=2 7 -> 2/12 A" 50 M (whin) 2 -> 2/12 1 re(mi) La une fois choisis, I! a: An-1 An by a (e.)=fi MODERUM = TO P(x) V PE A[X] En particule, si P= Xão, on a P(ã) es done Plulot = 0 ? P(u)=0 car IT surjective b, b' enter ser A ~ A[b,b'] = A-medde til

(enjente bib's i/deg til

j (deg til) A[b,b'] C A[b,b'] to A[b,b'] to A=0 on A northeric S. A pro noetheric x(b+b) D [A (b,b)) bye for D) 3 PEALA) containe L. P(1.16+b)) - 0

19 (b+6')=1=0=> P(b+6')=0

pol pol (X-1) [x-1) [x-1]

pol pol pol (X-1) [x-1]

on se ramine à 1=1 ~ Xo= (X-1) [x= (X+1) [

 $\begin{bmatrix}
J_{n_1} & J_{n_2} \\
J_{n_1} & J_{n_2}
\end{bmatrix}$ $J_{n_1} = \begin{bmatrix} 0 & 1 \\ 0 & 1 \end{bmatrix}$ o-le de nefetence = \underline{m} $\eta_1 > \eta_2 - 1 > m_1 = \eta$

ordre de nispotente r (=) nier

d. de simulatudes de matrier nispotente d'ordre = r

("partitions" de n-r) = P(n-r)

auer partis (n

n.r = Epi" -> P. Tr Pe ... 7...

n. « d'ordre en ... 7...

n.

3(1)

B - BEB 1 coassociated id∞ D si le disgramme commute BOB - BOBOB Do.y DR, G(A) movide associated BEB D(12) = = = (B. 6) Beaß - R 4. 1(42.45) . 5]: b, cb, 1, 4, (6,) (t. t) = 1/6) E 4. (L.) 4. (P.) 4. (Y.) (4.4.4) (E by @ B; @ Ki) 4.4.4 BEBEB (ide 1) (be } - be X4) G(R) = Hom (ACX), R) Exemple B= ACXI X 6) + 10 X --- / X8 lat 10 (xe1+)0 coassourd: (Xel + 10x/01 + 10x) = X8101+10X61+1616X

$$\begin{cases} d_{1} & d_{1} & d_{2} & d_{1} & d_{2} & d_{3} & d_{4} & d_$$

Example. A[X,X']
$$G(R) = Hom(A[X,X'],R)$$

= R^{X}

Cousionaly

$$\Psi_{1}, \Psi_{2} : A(x, x') \rightarrow R \qquad (x), \Psi_{1}(x) \in R^{*}$$
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