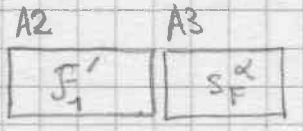
(2) $var_{A_0} = \mathcal{F}_1$ forme factorisée irred

$\mathcal{P}_{A_1} = \Delta$ polynome

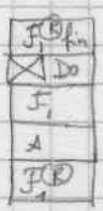
$D_0 = \alpha$



sont formes plus factorisées :

$\mathcal{F}_1' (\in \mathcal{F}_1)$
$\Delta_F^\alpha = \Delta^\alpha$
} mutuellement irréductibles

flag si S_F a plus de 2 facteurs : NE vrai
inclusé EQ vrai



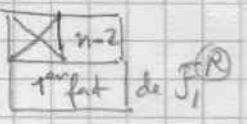

```
XREDPF: MOVEM.L D0/A0/A1/A6,-(SP)
        BSR   XPSF              recopie var_A0        F1(k)
        MOVE.L A6,-(SP)
        MOVE.L A2,A0            F1(k)
        MOVE  (A0)+,D5
        SUBQ  #2,D5
        BPL   KJ71
x                               <- { SUBQ #8,SP
                                     KJ695: ADDQ #8,SP   fin
a   KJ70: MOVE.L (SP),A6
        MOVE.L 12(SP),A0        Δ
        BSR   XPSAF             Δ^F   factorisé
        MOVE.L A2,A0
        MOVE  6(SP),D1  α       } Δ^F^α
        BSR   XEXPF
        MOVEM.L (SP)+,A0/A1     bidon
        MOVE.L A0,A3_SF^α
        BSR   XLB76
        MOVEM.L (SP)+,A0/A1/A2
        CLR   D0                F1
        RTS
```

b KJ71 : BSR SLNG0

ADD D0, A0

MOVEM.L D5/A0, -(SP)

MOVE.L 20(SP), A1 $\mathcal{P}_{A_1} = 1$



c KJ72 : MOVE.L (A0)+, D0

MOVE.L A0, A2

ADD.L D0, A2

MOVE.L A1, A3

SUBQ.L #2, D0

boucle sur D5 = n-2 ... 0

compare $\mathcal{P}_{A1}$ et $\mathcal{P}_{A0}$

d KJ73 : SUBQ.L #2, D0

BMI ~~KJ74~~ KJ695 ⊗ → fin

CMP (A0)+, (A3)+

X ~~BEQ~~ KJ73

inegalité : fin de suivre

ADDQ #8, SP

BRA KJ70

e ~~KJ74~~ : MOVE.L A2, A0

DBRA D5, KJ72

MOVEM.L (SP)+, D5/A0

f KJ75 : MOVE.L (A0)+, D0 — boucle sur D5 = n-2 ... 0

MOVE.L A0, A2 — $P_{A_0} = r_i$

ADD.L D0, A2

MOVEM.L D5/A2, -(SP)

BSR XREDPP

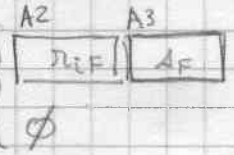
MOVEM.L (SP)+, D5/A0

BNE KJ76 → changé

x

DBRA D5, KJ75

BRA KJ70



g KJ76 : MOVE -(A0), D1 — D1 = α_i

MOVE.L 16(SP), A0 — $F_1^{(R)}$

lorsque $F_1^{(R)}$:

$F_1^{(R)} = \lambda r_1^{\alpha_1} \cdots r_{i-1}^{\alpha_{i-1}}$

ADDQ #1, D5

SUB D5, (A0)

MOVEM.L A3/A6, -(SP)

MOVE.L A2, A0 — $var_{A_0} = r_{iF}$

BSR XEXPF — r_{iF}^{D1}

MOVE.L A2, A0 — $var_{A_0} = r_{iF}^{\alpha_i}$

MOVE.L 24(SP), A1 — $var_{A_1} = F_1^{(R)}$

BSR XCONCP — $F_1' = \lambda r_1^{\alpha_1} \cdots r_{i-1}^{\alpha_{i-1}} r_{iF}^{\alpha_i}$

MOVEM.L (SP), A0/A1 — A_F, r_{iF}^{α}

MOVEM.L A2/A6, -(SP)

BSR XCOM1

MOVEM.L A3/A6, -(SP)

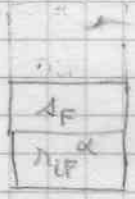
MOVE.L 40(SP), A0 — $F_1^{(R)}$

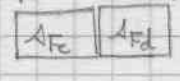
MOVEM.L 8(SP), A2/A6 — F_1', A_{Fc}

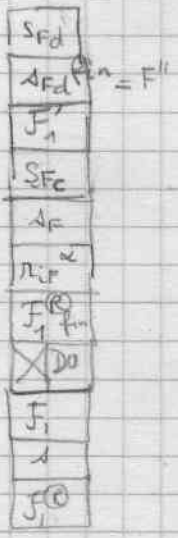
BSR XLB76 — copie F_1'

MOVE.L A0, A1 — $A1 = A_{Fc}^{new}$

MOVE.L (SP)+, A6 — S_{Fd}





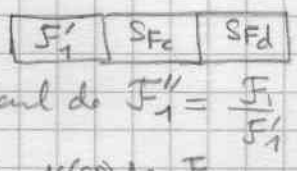


```
MOVE.L  32(SP),A0      F1            calcule F'' = F1 / F1^(k) π_i^α
MOVE.L  40(SP),A1      } F1^(k) * π_i^α  est resté
ADD #1,(A1)
BSR  XCONCI

MOVE.L  A2,A0          F1/F1^(k) π_i^α ]
MOVE.L  20(SP),A1
BSR  XCONCI
BSR  XLB76
```


```
MOVE.L  A6,A4
MOVE.L  40(SP),A0      libre
MOVEM.L 8(SP), A2/A6
                       F1'  SFc
BSR  XLB76             copie F1'
MOVE.L  A0,A1
MOVE.L  (SP)+,A6
                       SFd
BSR  XLB76             copie SFc
MOVE.L  A0,A3
MOVE.L  (SP)+,A6
                       F''
BSR  XLB76             copie SFd
ADDQ  #8,SP
MOVEM.L  A1/A3/A6,(SP)
MOVE.L  A4,A6
BSR  XLB76             copie F''1
```

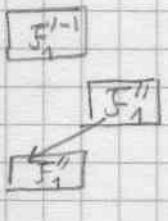
(2)

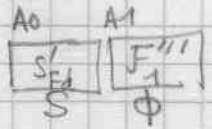
```
BSR   XLB76          copie SFc
MOVE.L A0,A3         A3 = SFd
MOVE.L (SP)+,A6      SFd fin

BSR   XLB76
ADDQ  #8,SP
MOVEM.L A1/A3/A6,(SP)

MOVE.L 24(SP),A0
BSR   XINVF          } inverse F'1
MOVE.L A2,A0         }
MOVE.L 16(SP),A1     F1
BSR   XCONCP
BSR   XLB76

MOVEM.L 4(SP),A0/A1
                     SFd  F''1

BSR   XREDFF
MOVE.L 24(SP),A0     F'1
                     var A1 = F'''1
BSR   XCONCP         F'1 new

MOVEM.L (SP)+,A0/A1/A3
          SFc  S     hidden
MOVEM.L A2/A6,-(SP)
BSR   XCONCP         Δ''F = ΔFc * S
MOVE.L A2,A0         var A0 = S*F
MOVE  16(SP),D1      Δ^α_F
BSR   XEXPF
MOVEM.L A2/A6,-(SP)
          S^α_F
MOVE.L 28(SP),A0     Lbu^e
MOVEM.L 8(SP),A2/A6
BSR   XLB76          copie  F'1 new
MOVE.L A0,A3         S*F
```

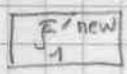


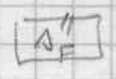
calcul de $F''_1 = \frac{F_1}{F'_1}$

```
MOVE.L 16(SP),A0  F1
MOVE.L 24(SP),A1  F'1
BSR   XCONCI
```









(2)

```
MOVEM.L (SP)+,A2/A6
BSR     XLB76          copie S_F^α
MOVEM.L (SP)+,D0/D1/D2/A0/A1/A2
                 bida
MOVEQ   #1,D0
RTS
```