

@@ Programa nlFIT - Ajuste não linear por Gauss-Newton

@ José Maurício Schneedorf Ferreira da Silva
 @ Departamento de Bioquímica
 @ Universidade Federal de Alfenas, UNIFAL-MG
 @ email: jose.dasilva@unifal-mg.edu.br

```

« → x1 y1 w1 ↓↑f ↓↑p ↓↑v it
  « 1. it
    FOR k k 1. DISP x1 SIZE → n
      « ↓↑f ↓↑p ↓↑v ↓↑s 4. →LIST DUP 'fields' STO EVAL DROP DUP SIZE
E → m
      « 3. →LIST { ↓↑f ↓↑p ↓↑v } STO ↓↑v ↓↑p STO ↓↑p 1.
        « ↓↑f SWAP -3. CF DUP → x ↑↓
          «
            IF DUP TYPE 9. ==
              THEN x SHOW
              END x { ↑↓ } + ↓MATCH DROP '↑↓' DUP STO ↑↓ δ x '↑↓' ST
TO EVAL
          »
        » DOLIST 'da' STO y1 x1 2.
        « 'x' STO ↓↑f EVAL -
        » DOLIST OBJ→ 1. 2. →LIST →ARRAY 1. n
        FOR i x1 i GET 'x' STO 1. m
          FOR j da j GET EVAL
            NEXT
          NEXT { n m } →ARRAY w1 DUP SIZE SWAP OBJ→ →ARRAY SWAP DIAG→
          IF w1 ΣLIST NOT
            THEN 1. SF
            END → ym xm wm
          « xm TRN wm * xm * INV DUP xm TRN * wm * ym * DUP m 1. →LI
IST RDM 3.
        ROLLD ym xm ROT * - DUP TRN SWAP * 1. GET n m - /
          IF 1. FS?C
            THEN SWAP OVER * SWAP
            END √ 'x' PURGE ROT OBJ→ 1. GET →LIST ↓↑v ADD '↓↑v' STO
          '↓↑s' STO
        DUP →DIAG OBJ→ 1. GET →LIST √ 'sig' STO 'cm' STO ↓↑v ↓↑p STO
          »
          »
          »
        NEXT cm 'cov' →TAG ↓↑p 'pars' →TAG ↓↑v 'vals' →TAG sig 'sd' →TAG
G ↓↑s SQ x1
        SIZE 2. - * 'chiSQ' →TAG ERASE SCATTER x1
          « MIN
          » STREAM ABS NEG 1.1 * x1
          « MAX
          » STREAM ABS 1.1 * XRNG 'x' INDEP y1
          « MIN
          » STREAM y1
          « MAX
          » STREAM DUP2 - ABS 1.2 * DUP .05 * ROT + ABS 3. ROLLD .15 * -
ABS NEG SWAP
        YRNG 0. RES DRAX 1. x1 SIZE
  
```

```
FOR q x1 y1 q GET SWAP q GET SWAP R→C PIXON
NEXT ↓↑f STEQ FUNCTION DRAW PICTURE
» { ↓↑s sig cm fields x da ΣDAT ΣPAR PPAR EQ Vm Km } PURGE 1000.
3. BEEP
»
```