



Programa nlFIT - Ajuste não linear

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[Link para acesso no portal hpcalc.org:](#)

```
<< → 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 → 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 ↑↓ ⚈ x '↑↓' STO EVAL
      >>
    »» DOLIST 'da' STO y1 x1 2.
    << 'x' STO ↓↑f EVAL -
    »» DOLIST OBJ→ 1. 2. →LIST →ARRY 1. n
FOR i x1 i GET 'x' STO 1. m
  FOR j da j GET EVAL
  NEXT
NEXT { n m } →ARRY w1 DUP SIZE SWAP OBJ→ →ARRY 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. →LIST 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 ↓↑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
»»
```