| Command | FEXP |
|---|---|

**PURPOSE**     Specify a series of linear exponential functions as fit function ("decay curves")

**PARAMETERS**

N             The fit function is composed of n linear exponential functions plus a constant term.

/NODISP       Do not show the fitted curve.

/PROMPT       Prompt location of exponentials.

**REMARKS**     Definition of function and fit parameter indices follow from the expression

$$f(x) \;=\; a_1 \;+\; a_2 \cdot \exp(a_3 \cdot x) \;+\; \ldots \;+\; a_{2n} \cdot \exp(a_{2n+1} \cdot x)$$

In complex cases, fit parameter values are initially set to zero: appropriate starting values should be given using the command FPAR.

For a better convergence of the fit, the constant value $a_1$ is fixed to zero as a default. Use the command "FPAR 1 / VARY" to include this parameter in the fit.

**EXAMPLE**     FEXP 2
The fit function is specified by

$$f(x) \;=\; a1 \;+\; a_2 \cdot \exp(a_3 \cdot x) \;+\; a_4 \cdot \exp(a_5 \cdot x)$$