

Command	FPOSITION
<b>PURPOSE</b>	Define values and attributes of peak positions.
<b>PARAMETERS</b>	
PEAKS	List of peak numbers. Each list element may have the syntax “a TO z BY s” with optional parameters z and s; default step size is s = 1.
/FIX	The specified peak positions are <b>fixed</b> . They are held constant during iterations.
/DIFF(p)	The specified peak positions are <b>relatively fixed</b> . The differences of the positions of corresponding peaks and reference peak number p are held constant during iterations.
/SUM(p)	The specified peak positions are <b>relatively fixed</b> . The sums of the positions of corresponding peaks and reference peak number p are held constant during iterations.
/PRODUCT(p)	The specified peak positions are <b>relatively fixed</b> . The products of the positions of corresponding peaks and reference peak number p are held constant during iterations.
/QUOTIENT(p)	The specified peak positions are <b>relatively fixed</b> . The quotients of the positions of corresponding peaks and reference peak number p are held constant during iterations.
/VARY	Concerned peak positions are to <b>vary</b> again.
/EON	A special error analysis is demanded.
/EOFF	Reset error analysis flag.
/GUESS(g)	<p>Guess values for the peak positions.</p> <p>General values are assigned to the denoted parameters in the order of appearance (arrays with the rightmost subscripts varying most rapidly.) However, if the list consists of a single one-dimensional array (or array cross section) with asterisk notation (one subscript substituted by ‘*’), array elements corresponding to the specified peak numbers are selected and assigned accordingly.</p> <p>If only a single value is given, it is assigned to each specified parameter.</p>
/RELATIVE	This keyword specifies the interpretation of the guess values. For relatively fixed fit parameters the guess values are expected to represent a difference, sum or quotient with respect to the corresponding reference parameters; for others the keyword is ignored and the guess values are taken absolute.
/MIN(m)	List of lower limits which must not exceed the current values of the peak positions. For details see keyword “/GUESS”
/MAX(m)	List of upper limits which must not exceed the current values of the peak positions. For details see keyword “/GUESS”
/NOLIM	Limits of the specified parameters are set to infinity unless nominated by MIN or MAX.
/LIST	List the current guess values and limits of the specified peak positions..

**REMARKS**

Together with [“FAREA”](#) and [“FWIDTH”](#) this command provides a more comfortable way of specifying attributes of (Gaussian and Lorentzian) peak parameters than the command [“FPAR”](#) does, since parameters are addressed by peak numbers instead of internal serials.

The fit function is evaluated with the current guess values and may be displayed by [“FDISP”](#) or listed by [“FLIST”](#) and [“FRESULT”](#).

**EXAMPLE**

FPOS 1..2 / D(3) G(-16.2, -14.6) R

Fix the differences of the positions of peaks no. 1 and 2 relative to peak no. 3. Assign guess values to the positions of peaks 1 and 2 which are smaller than that of peak no. 3 by an amount of 26.1 and 14.6, respectively.

For further examples see command [“FPAR”](#).