Alphabet Soup II: Bruker Parameters and Commands

Common Parameters on the Bruker NMR:

AT	acquisition time (sec)	02	frequency offset for 2 nd (decoupled) nucl.
Dı	relaxation delay	P1	90° pulse length (μ s)
D_2, \ldots	other delays in pulse sequences	P2	180° pulse length (μ s)
DS	number of dummy scans	PHCo, PH	IC1 zeroth and first order phase corrections
F1	1D: frequency axis of observed nucleus2D: simulated frequency axis	PLx	power level attenuation for pulse x , in dB. (120 = "off")
F2	1D: freq domain of 2^{nd} (decoupled) nucl	PL_2	BB decoupler power-level attenuation
	2D: frequency axis for observed nucleus	PL_{24}	homonucl decoupler power-level attenuation
GB	Gaussian broadening factor, for apodization	RG	receiver gain
	(fraction of FID)	SFOx	spectrometer frequency on channel x
$\mathrm{GPZ}x$	strength of gradient pulse x along z-axis		(= transmitter freq for nuclus + offset Ox $)$
LB	line broadening factor, for apodiz'n (Hz): + for noise reduction;	SI	number of data points in processed data. Usually $\mathrm{TD}/2$.
	- for resolution enhancement (GFP, TRAF)	SWH	spectral width (Hz)
NS	number of scans	SW	spectral width (ppm)
O1P	frequency offset for observed nucl. (ppm)	TD	Total Data points (Time Domain?)
O1	frequency offset for observed nucl. (Hz)	TE	temperature (K)

Common Commands on the Bruker NMR:

edtiedit spectrum titlerpar x read parameter file x efpexponential multiply (LB), FT, recall phasing from previous spectrumrsh x read shim file x exitclose TopSpinspdispshow pulse sequence graphic (pulse display")explopen an explorer window (file-browser) to current data directorystopstop acquisition; discard data (cf. sx n ej, ijeject/inject samplestopstop acquisition; discard data (cf. sx n exptshow time run will taketopshimperform gradient autoshim on sam topshim gui open TopShim control panelgfpGaussian multiply (pos. GB, neg. LB), FT, recall phasing from previous spectrumtrafTraficante resolution enhancmt (n wrpagoresume acquisition; add to existing data set gsacquire w/ interactive setting adjustmentxf1,xf2,xfbFT the 1 st 2 nd both dimensions data-set	(cf. halt) ample exchg) sample cquisition) t (neg. LB) cessed data")