COSY45
Experiment setup.

*Tune the proton channel of probe.
*Calibrate the 90^0 pulse according to the "Calibration of 90^0 pulse" menu
*Record the proton spectrum according to the "Short instruction of basic operation of Bruker NMR spectrometer." Limit the "sw" of the spectrum to the important peaks, only. This will save experiment time.
*Measure the spin-lattice relaxation time of the slowest peak according to "Measurement of spin-lattice relaxation time T_1"
*Load the "cosy45.BBI" parameter file.
*Go to "EDA" menu. Insert the exact "sw" value the same for both dimensions. Insert   "O1p"
*Insert "p1" according to 90^0 pulse calibration.
*Set up "D1" =1.27 T_1
*Take "rg" from 1D experiment multiply by factor of 1.5 and insert it.
*The number of experiments in second dimension depends on required resolution and experiment time you would like to take. In most cases 128 spectra is enough. If, your sample has a large "sw" 256 might be necessary.
*number of scans "ns" needs to be 4n. Very often 8 scans are enough. If sample has a smaller concentration more scans might be required.
*Check the experiment time "exptime" .
*type "zg" to start acquisition.
*type "xfb" for Fourier transformation. Type "abs1" and after is finished "abs2"
  The spectrum can be checked anytime during the experiment. Experiment does not need to be finished if one is satisfied with spectrum.
*to symetrize the spectrum type "sym". However, this might introduce artificial peaks, so caution is needed.
*The default phasing is setup to "mc" mode. No need to phase.
*To add projections to the spectrum type "edg" and click "EDPROJ1" to the F1
  parameters. Edit as follows:
 PF1DU -disk partition one of (/w, /x or /m)
 PF1USER- username
 PF1NAME – filename
 PF1EXP- experiment #
 PF1PROC – processed data #
 Repeat the procedure for F2 dimension.
*Save the optimum display parameters by clicking on "DefPlot".
* "View" and plot the spectrum.