Linear Prediction   Emily Gruver

Linear prediction is a mathematical processing tool. It predicts the FID to add more data points.
This can double the sensitivity and resolution of the spectrum.

Instructions

1. Acquire a spectrum as normal.
2. Open the ProcPars tab.
3. Click Fourier on the left.
4. Turn Me_Mod from off to LPfr or LPfc
    a. LPfr is linear prediction on real data
    b. LPfc is linear prediction on complex data
5. Change the NCOEF = 32
    a. Set to 2-3 times the number of expected peaks, 32 is default
6. Increases LPBIN, if desired.
    a. LPBIN is the number of points for linear prediction
    b. 0= two-fold, 3*td= four-fold, 7*td = 8 fold
    c. Be careful, predicting too many points will change the shape of your data
7. Re-process the data.
    a. Xfb for 2D, efp for 1D