Save Step 1: Characterization Step 2: Synthesis Step 3: Analysis 35 **Project Directory** 30 Select Folder Selected Directory: D:\example data\ 25 **Select Data** 20 LFP Data LFP seg Sampling Rate 1000 Hz PSD (dB/Hz) 15 **Fit PSD** 10 Signal Frequency Band 30 80 Hz 5 Raw PSD Frequency Range for Fitting Smoothed PSD 0 Autofit O Specify: 200 10 Hz Fit curve -5 Fit background component **Decibel Threshold** Signal frequency range -10 Signal frequency band Default dB Specify: 1 -15 10^{2} 10° 10¹ Options Fit Frequency (Hz) **Characterize Bursts and Fit Probability Distribution** 0.025 AΡ Number of Histogram Bins Unit of Amplitude Observed CN Gamma fit Default O Specify: 30 иV BF 0.02 Probability density Options Run 0.015 Save Characterization Data LFP BLA ga Also Save Burst Statistics Save 0.01 Results 0.055 -0.007 1.000 0.005 Logscale correlation coefficients: 1.000 0.026 0.060 0.026 1.000 0.015 0.060 0.015 1.000 Bursts characterization done. 100 150 200 250 50 Amplitude peak (µV) Results saved in linear scale log scale "D:\example data\LFP BLA gamma Charac.mat".