Supplementary Materials



Supplementary Figure 1: Impact of decreasing the bandwidth of the bandpass filter. A) Grandaverage cross-correlation function (Xcorr) calculated between instantaneous amplitude and instantaneous frequency for simulated data (N=10000) filtered using different bandwidths (i.e. ± 3.5 to ± 6.5 Hz) around the beta peak B) Cross-correlation peaks (mean \pm SEM ± 200 ms around 0 lag) calculated between instantaneous amplitude and instantaneous frequency OFF (black) and ON (violet) levodopa using different bandwidths of the band-pass filter (i.e. ± 3.5 to ± 6.5 Hz) around the beta peak. C) Pearson correlation coefficient between dopamine- dependent changes AM (delta β AM) and FM (delta β FM) calculated using different bandwidths. The blue-shaded area displays Bayesian 95% credible intervals.



