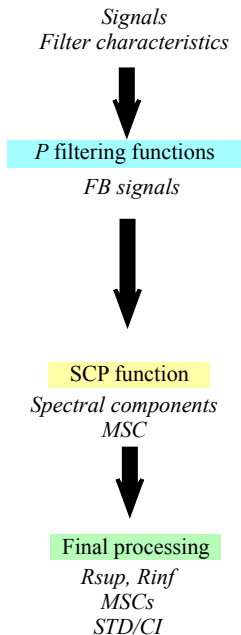
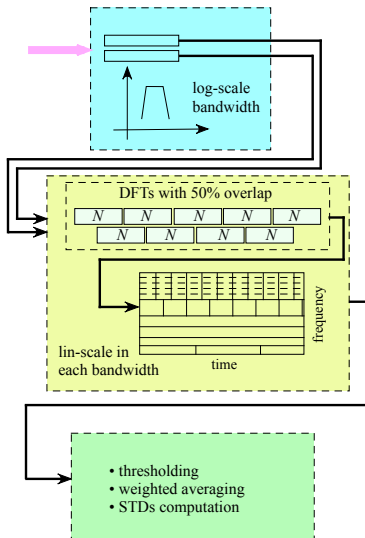


# Main function `fbanalysis.m`



## Settings

- ▶ Different time period, regarding the frequency bandwidth, are considered, leading to different numbers of samples. Hence, using the FFT, we have different numbers of frequency bins.  
But only a few of them are kept depending on the filter frequency bandwidth. For example with the considered FB, we have in the full band, 70 frequency bins from 0.005 Hz to 5.75 Hz.  
That means that we can perform the 70 spectral components using the direct formula.
- ▶ the function `fbanalysis.m` performs an averaging on the time slots, typically a pair of days, giving around 175, 250, 700, 1100, 6000 and 9000 time slots regarding the filter frequency bandwidth.
- ▶ Outside of the function `fbanalysis.m`, an external averaging is applied on several pairs of days.