- (1). Import various useful packages
- 2). Input speech ,fs=soundfile.read(inputAudio.wav)
- (3). Window=scipy.windows.hamming(fs,False)
- frames returns frames 4). function frameblocks(signal, window, o=0.5) create input speech into
- (5). For each frame:

dftframe=numpy.fft.fft(frame)

plot numpy.log10(abs(dftframe))

lpccoeff=librosa(frame, order), returns order+1 length vector

w,h=scipy.freqz(lpccoeff,1)

plot(w,numpy.log10(abs(h))

poles=1

synthetic=signal.Ifilter([1],coefficients,residual) return all synthetic frames residual=signal.Ifilter(coefficients, poles, frame) inverse filter

- (6). functionaddframeblocks(signal, windows, o=0.5), returns the signal, return output signal
- (7). soundFile.write(outputsignal,fs)
- (8). end