

Input speech signal

Segmentation

Windowing

N_0

Smoothed envelope
by cepstral limitation

P_C [dB]

Formant positions and bandwidths
determination of spectral envelope

$\{PSD_{dB}\}$

Formant tilts
calculation

$\{k_{1,2,3}\}$

$\{\varphi_{1,2,3}\}$

N_{LPC}

LPC analysis
(low order)

$\{a_k\}, G$

Calculation from
roots of LPC
polynomial

$\{F_{1,2,3}\}$

$\{B3_{1,2,3}\}$

$\{B3_{1,2,3}\}$

$\{F_{1,2,3}\}$