

Table A.1: Table of parameters for Gabor set G1 (optimized on TIMIT phoneme inter-group discrimination). # denotes the filter number as in Figure A.3, f_0 the number of the center frequency channel (on a scale from 1 to 23, low channel number equals low center frequency), ω_f and ω_t the spectral and temporal radian modulation frequency, respectively, σ_f and σ_t the widths of the Gaussian envelope, and Δ_f and Δ_t the extends of the support to both sides of the center. 'mode' specifies whether a filter is real with zero phase ('real') or $\pi/2$ phase ('imag') or complex ('mag'). 'type' highlights whether a filter is purely temporal, spectral or spectro-temporal ('ST'). See Chapter 7 for further description.

#	f_0	$\omega_f/2\pi$		$\omega_t/2\pi$		σ_f		σ_t		Δ_f		Δ_t		mode	type
		[cycl./chan.]	[100Hz]	[chan]	[10ms]	[chan]	[10ms]	[chan]	[10ms]						
1	17	0.081	-0.090	6.141	5.556	7	10	mag	STup						
2	6	0.140	0.000	3.571	1.540	5	2	mag	spectral						
3	3	0.000	0.170	0.813	2.947	2	4	real	temporal						
4	3	0.000	0.045	2.173	11.018	4	13	mag	temporal						
5	4	0.000	0.028	1.246	17.758	2	19	imag	temporal						
6	18	0.111	0.000	4.496	0.894	9	2	real	spectral						
7	15	0.170	0.000	2.947	0.795	6	2	mag	spectral						
8	7	0.000	0.070	2.795	7.114	4	10	real	temporal						
9	8	0.000	0.109	1.546	4.587	4	9	mag	temporal						
10	9	0.061	0.000	8.242	0.863	16	2	mag	spectral						
11	15	0.084	0.000	5.965	1.598	11	2	imag	spectral						
12	16	0.142	0.000	3.519	1.607	7	4	imag	spectral						
13	11	0.064	0.000	7.760	0.822	16	2	real	spectral						
14	15	0.172	0.000	2.912	1.863	4	3	imag	spectral						
15	14	0.094	0.000	5.301	2.168	7	4	imag	spectral						
16	18	0.224	0.000	2.230	2.435	3	5	mag	spectral						
17	16	0.167	0.000	2.996	1.957	6	3	mag	spectral						
18	12	0.102	0.000	4.905	1.416	10	3	real	spectral						
19	15	0.069	0.000	7.298	1.786	11	4	mag	spectral						
20	12	0.000	0.173	2.466	2.896	4	5	mag	temporal						
21	12	0.085	0.000	5.890	2.267	8	4	mag	spectral						
22	9	0.000	0.051	1.403	9.873	2	15	real	temporal						
23	13	0.000	0.175	2.763	2.854	6	6	mag	temporal						
24	10	0.053	0.000	9.394	1.612	18	3	imag	spectral						
25	5	0.117	0.000	4.284	1.836	6	4	mag	spectral						
26	3	0.000	0.049	0.696	10.287	2	19	mag	temporal						
27	7	0.093	0.000	5.392	2.938	6	6	mag	spectral						
28	10	0.064	0.000	7.823	1.503	13	2	real	spectral						
29	6	0.000	0.112	1.084	4.464	2	9	mag	temporal						
30	14	0.055	0.000	9.050	2.261	12	3	real	spectral						
31	14	0.083	0.000	5.999	2.915	10	4	real	spectral						
32	9	0.056	0.000	8.999	1.583	10	4	imag	spectral						
33	11	0.050	0.064	10.087	7.756	12	15	mag	STdown						
34	3	0.000	0.133	2.333	3.771	3	5	real	temporal						
35	15	0.218	0.000	2.289	2.491	3	4	mag	spectral						
36	16	0.000	0.089	0.956	5.640	2	12	mag	temporal						
37	8	0.000	0.062	2.746	8.023	5	10	real	temporal						
38	21	0.000	0.022	2.179	23.224	4	32	mag	temporal						
39	22	0.000	0.104	1.627	4.796	3	8	mag	temporal						
40	3	0.000	0.066	2.436	7.587	4	16	imag	temporal						
41	6	0.143	0.000	3.487	2.485	5	3	imag	spectral						
42	7	0.000	0.067	2.481	7.474	4	15	mag	temporal						
43	5	0.000	0.031	1.246	16.274	3	22	mag	temporal						
44	11	0.279	0.000	1.792	2.405	4	4	imag	spectral						
45	12	0.046	0.000	10.897	0.689	12	2	real	spectral						
46	13	0.075	0.000	6.676	0.968	9	2	imag	spectral						
47	12	0.188	0.000	2.660	2.363	4	5	mag	spectral						
48	10	0.068	0.000	7.350	0.867	14	2	real	spectral						
49	6	0.000	0.144	0.930	3.466	1	6	mag	temporal						
50	3	0.351	0.000	1.423	1.371	2	3	mag	spectral						
51	3	0.000	0.048	0.725	10.441	1	13	real	temporal						
52	5	0.000	0.040	1.519	12.485	2	19	mag	temporal						
53	3	0.000	0.143	1.817	3.503	3	7	mag	temporal						
54	22	0.000	0.060	1.145	8.328	2	12	mag	temporal						
55	13	0.056	0.000	8.920	2.846	15	4	real	spectral						
56	20	0.202	0.000	2.470	1.906	4	4	imag	spectral						
57	10	0.060	0.000	8.287	2.343	17	3	mag	spectral						
58	20	0.129	0.000	3.867	1.883	5	2	imag	spectral						
59	14	0.128	0.000	3.913	1.939	6	3	mag	spectral						
60	16	0.127	0.000	3.937	1.481	7	3	imag	spectral						