

ENH. No.	RATIO a : b	CENTS	PRIME POWERS > 3 (for a & b)								CHECK (x)	HEJI EXAMPLE	HEJI ALTERNATIVE RESPELLING (“2nd order” proximity)	
			5	7	11	13	17	19	23	total				
1	4374 : 4375	0.4	4	1	0	0	0	0	0	5	•	♯B to ♭B	♯A to ♭B	(14348907 : 14336000 = -1.6c)
2	384 : 385	4.5	1	1	1	0	0	0	0	3	x	♭A to ♭A		
3	440 : 441	3.93	1	2	1	0	0	0	0	4	x	♯B to ♯C		
4	539 : 540	3.21	1	2	1	0	0	0	0	4	x	♯E to ♯D	♯D to ♯D	(130977 : 131072 = 1.3c)
5	3024 : 3025	0.57	2	1	2	0	0	0	0	5				
6	9800 : 9801	0.18	2	2	2	0	0	0	0	6				
7	324 : 325	5.34	2	0	0	1	0	0	0	3	x	♯G to ♭G		
8	624 : 625	2.77	4	0	0	1	0	0	0	5	•	♭C to ♯B	♭C to ♯B	** (728 : 729 = 2.4c) **
9	728 : 729	2.38	0	1	0	1	0	0	0	2	x	♭A to ♯G		
10	4095 : 4096	0.42	1	1	0	1	0	0	0	3	x	♯C to ♯C	♭D to ♯C	** (728 : 729 = 2.4c) **
11	350 : 351	4.94	2	1	0	1	0	0	0	4	x	♯G to ♭G		
12	351 : 352	4.93	0	0	1	1	0	0	0	2	x	♭G to ♯G		
13	2079 : 2080	0.83	1	1	1	1	0	0	0	4		♯A to ♭A	♯A to ♭B	(13640319 : 13631488 = -1.1c)
14	1000 : 1001	1.73	3	1	1	1	0	0	0	6	•	♭G to ♭A	♭G to ♯G	(8000 : 8019 = 4.1c)
													♭G to ♯A	(5625 : 5632 = 2.2c)
15	1715 : 1716	1.01	0	3	1	1	0	0	0	5				
16	363 : 364	4.76	0	1	2	1	0	0	0	4		♯G to ♭A		
17	675 : 676	2.56	2	0	0	2	0	0	0	4	x	♯E to ♭F		
18	4224 : 4225	0.41	2	0	1	2	0	0	0	5				
19	1700 : 1701	1.02	2	1	0	0	1	0	0	4	x	♯F to ♭F	♭G to ♯F	(11141120 : 11160261 = 3.0c)
20	1224 : 1225	1.41	2	2	0	0	1	0	0	5				
21	2499 : 2500	0.69	4	2	0	0	1	0	0	7				
22	5831 : 5832	0.3	0	3	0	0	1	0	0	4	x	♭F to ♯D	♯E to ♯D	(262395 : 262144 = -1.7c)
23	374 : 375	4.62	3	0	1	0	1	0	0	5	•	♯E to ♭D		
24	594 : 595	2.91	1	1	1	0	1	0	0	4	x	♯E to ♯F		
25	560 : 561	3.09	1	1	1	0	1	0	0	4	x	♯E to ♯E	♯E to ♯D	(3670016 : 3680721 = 5.0c)
26	1088 : 1089	1.59	0	0	2	0	1	0	0	3	x	♯B to ♯A	♯A to ♯A	(61965 : 61952 = -0.4c)
27	2057 : 2058	0.84	0	3	2	0	1	0	0	6				
28	441 : 442	3.92	0	2	0	1	1	0	0	4	x	♯G to ♯G		
29	832 : 833	2.08	0	2	0	1	1	0	0	4	x	♯B to ♯C	♯B to ♯B	(27262976 : 27326565 = 4.0c)
30	1274 : 1275	1.36	2	2	0	1	1	0	0	6				
31	935 : 936	1.85	1	0	1	1	1	0	0	4	•	♯G to ♯G		
32	2430 : 2431	0.71	1	0	1	1	1	0	0	4		♯E to ♯F	♯F to ♯F	(65536 : 65637 = 2.7c)

NOTES

Included epimoric ratios are limited to:
 12 powers of 2
 8 powers of 3
 4 powers of 5
 3 powers of 7
 2 powers of each 11, 13, 17, & 19
 1 power of 23
 No composite numbers > 9999*

Ratios are listed in order of both increasing increasing prime-limit and increasing exponential degree.

The CHECK parameters define 27 enharmonic proximites (marked “x”) with the characteristics:
 No more than 4 prime alterations
 If both 11 and 13 are factors, no combinations with any of 5, 7, 17, or 19
 No combinations with both 17 & 19
 If 23 is a factor, no combinations with any of 11, 13, 17, or 19

13 potentially interesting exceptions to the CHECK are marked “•”.

Ratios in bold indicate those included in Marc Sabat’s initial research into enharmonic proximities in his 2016 table “Some 23-limit enharmonic proximities” (TEMPO 70, no. 278).

HEJI Notation examples are provided for all proximites with 4 or less prime alterations (in addition to select exceptions).

Alternative HEJI spellings (often differing by e.g. a skhisma) are provided where possibly useful to composition, serving as “2nd degree” enharmonic proximities.

* Proximity No. 88 has been included as an intriguing artifact resulting from the research into skhismatic respellings and 2nd order proximities.

33	714 : 715	2.42	1	1	1	1	1	0	0	5				
34	1155 : 1156	1.5	1	1	1	0	2	0	0	5				
35	2600 : 2601	0.67	2	0	0	1	2	0	0	5				
36	512 : 513	3.38	0	0	0	0	0	1	0	1	x	♯D to ♭D		
37	1215 : 1216	1.42	1	0	0	0	0	1	0	2	x	♯E to ♭F		
38	399 : 400	4.33	2	1	0	0	0	1	0	4	x	♭B to ♯A		
39	342 : 343	5.05	0	3	0	0	0	1	0	4	x	♯G to ♭A		
40	2375 : 2376	0.73	3	0	1	0	0	1	0	5	•	♯B to †B		
41	1539 : 1540	1.12	1	1	1	0	0	1	0	4	x	♭E to ♯E		
42	3135 : 3136	0.55	1	2	1	0	0	1	0	5				
43	1728 : 1729	1	0	1	0	1	0	1	0	3	x	♯B to ♭C		
44	455 : 456	3.8	1	1	0	1	0	1	0	4	x	♯C to †C	♭D to †C	(372736 : 373977 = 5.7c)
45	6174 : 6175	0.28	2	3	0	1	0	1	0	7				
46	494 : 495	3.5	1	0	1	1	0	1	0	4	•	♭D to †C	♭D to †D	(180063 : 180224 = 1.5c)
47	5928 : 5929	0.29	0	2	2	1	0	1	0	6				
48	1520 : 1521	1.14	1	0	0	2	0	1	0	4	x	♭E to ♯E		
49	2925 : 2926	0.59	2	1	0	2	0	1	0	6				
50	475 : 476	3.64	2	1	0	0	1	1	0	5	•	♯G to ♭A	♯G to ♯G	(778240 : 780759 = 5.6c)
51	5984 : 5985	0.29	1	1	1	0	1	1	0	5				
52	968 : 969	1.79	0	0	2	0	1	1	0	4		♯C to †D		
53	2431 : 2432	0.71	0	0	1	1	1	1	0	4		♯F to †F		
54	4199 : 4200	0.41	2	0	1	1	1	1	0	6				
55	360 : 361	4.8	1	0	0	0	0	2	0	3	x	♯G to ♭A		
56	5775 : 5776	0.3	2	1	1	0	0	2	0	6				
57	3249 : 3250	0.53	3	0	0	1	0	2	0	6	•	♭C to ♯B		
58	1444 : 1445	1.2	1	0	0	0	2	2	0	5				
59	575 : 576	3.01	2	0	0	0	0	0	1	3	x	†F to †G		
60	735 : 736	2.35	1	2	0	0	0	0	1	4	x	♯C to †B	♭D to †B	(50176 : 50301 = 4.3c)
61	2024 : 2025	0.86	2	0	1	0	0	0	1	4		†D to ♯D		
62	8624 : 8625	0.2	3	2	1	0	0	0	1	7				
63	483 : 484	3.58	0	1	2	0	0	0	1	4		♯C to †C		
64	896 : 897	1.93	0	1	0	1	0	0	1	3	•	♯C to †B	♯C to †C	** (76545 : 76544 = -0.0c) **
65	8280 : 8281	0.21	1	2	0	1	0	0	1	5				
66	1287 : 1288	1.34	0	1	1	1	0	0	1	4	•	†F to †F		

67	3887 : 3888	0.45	0	0	0	2	0	0	1	3	•	♯E to ♯E	♯F to ♯E	(7960576 : 7971615 = 2.4c)
68	3380 : 3381	0.51	1	2	0	2	0	0	1	6				
69	506 : 507	3.42	0	0	1	2	0	0	1	4		↑F to ♯G		
70	459 : 460	3.77	1	0	0	0	1	0	1	3	•	♯D to ♯C	♯C to ♯C	(3011499 : 3014656 = 1.8c)
													♯C to ↑D	(98792224695 : 98784247808 = -0.1c)
71	391 : 392	4.42	0	2	0	0	1	0	1	4		↑♯A to ♭B	↑♯A to ♯A	
72	3519 : 3520	0.49	1	0	1	0	1	0	1	4		↑♯G to ↑G		
73	5082 : 5083	0.34	0	1	2	0	1	0	1	5				
74	390 : 391	4.43	1	0	0	1	1	0	1	4		♯A to ↑♯A		
75	1104 : 1105	1.57	1	0	0	1	1	0	1	4		↑D to ♯E	↑E to ♯E	(12058624 : 12083175 = 3.5c)
76	1495 : 1496	1.16	1	0	1	1	1	0	1	5				
77	2023 : 2024	0.86	0	0	2	0	2	0	1	5				
78	874 : 875	1.98	3	1	0	0	0	1	1	6				
79	1862 : 1863	0.93	0	2	0	0	0	1	1	4		♭♭D to ↑B	♭C to ↑B	(377055 : 376832 = -1.0c)
80	759 : 760	2.28	1	0	1	0	0	1	1	4		↑♯E to ♭F		
81	2299 : 2300	0.75	2	0	2	0	0	1	1	6				
82	1196 : 1197	1.45	0	1	0	1	0	1	1	4		↑♯E to ♭F	↑♯F to ♭F	(39190528 : 39267585 = 3.4c)
													↑♯F to ♭F	** (76544 : 76545 = 0.0c) **
83	2184 : 2185	0.79	1	1	0	1	0	1	1	5				
84	7865 : 7866	0.22	1	0	2	1	0	1	1	6				
85	2736 : 2737	0.63	0	1	0	0	1	1	1	4		↑G to ↑♯G		
86	3059 : 3060	0.57	1	1	0	0	1	1	1	5				
87	4692 : 4693	0.37	0	0	0	1	1	2	1	5				
88*	76544 : 76545	0.02	1	1	0	1	0	0	1	4		↑C to ♭C		