# **META PINGALA**

Praveen S. Venkataramana

Source: the fourth Mt. Meru sequence https://www.anaphoria.com/meruthree.pdf

The Meta-Pingala sequence is  $H_n = H_{(n-1)} + H_{(n-4)}$ . I call this sequence Meta-Pingala because it gives rise to a 13 tone scale with various seedings, and an 8-tone MOS step size pattern from this 13-tone scale has a lot of proportional triads that come from the definition of the sequence itself -- and 8 and 13 are both Fibonacci numbers.

### META PINGALA SEEDING 1

<u>6 8 11 15</u> 21 29 40 55 76 105 145 200 276

1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
22/21	21/20	20/19	152/145	145/138	69/64	16/15	30/29	58/55	22/21	21/20	25/24
8/7	11/10	21/19	32/29	76/69	145/128	23/20	32/29	12/11	116/105	11/10	35/32
25/21	6/5	22/19	168/145	80/69	19/16	29/24	69/58	64/55	8/7	29/25	55/48
5/4	5/4	24/19	176/145	28/23	5/4	19/15	5/4	69/55	128/105	6/5	29/24
55/42	21/16	25/19	192/145	88/69	21/16	4/3	38/29	29/22	46/35	32/25	5/4
29/21	11/8	105/76	40/29	32/23	11/8	7/5	40/29	76/55	29/21	69/50	4/3
10/7	29/20	55/38	42/29	100/69	3/2	22/15	42/29	16/11	152/105	29/20	23/16
32/21	3/2	29/19	44/29	35/23	25/16	8/5	44/29	84/55	32/21	38/25	145/96
23/14	8/5	30/19	8/5	110/69	105/64	5/3	48/29	8/5	8/5	8/5	19/12
145/84	69/40	32/19	48/29	116/69	55/32	7/4	50/29	96/55	176/105	42/25	5/3
38/21	29/16	69/38	256/145	40/23	29/16	11/6	105/58	20/11	64/35	44/25	7/4
40/21	19/10	145/76	276/145	128/69	15/8	29/15	55/29	21/11	40/21	48/25	11/6
2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1
40/2 2/	19/10 <b>2/1</b>	145/76 <b>2/1</b>	276/145 <b>2/1</b>	128/69 <b>2/1</b>	15/8 <b>2/1</b>	29/15 <b>2/1</b>	55/29 <b>2/1</b>	21/11 <b>2/1</b>	40/21 <b>2/1</b>	48/25 <b>2/1</b>	11/6 <b>2/1</b>

Murchanas with rotation of 8 tone MOS:

### META PINGALA SEEDING 2

<u>7 10 13 18</u> 25 35 48 66 91 126 174 240 331

	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
	15/14	21/20	22/21	35/33	36/35	10/9	331/320	348/331	91/87	96/91	25/24	26/25	14/13
	9/8	11/10	10/9	12/11	8/7	331/288	87/80	364/331	32/29	100/91	13/12	28/25	15/13
	33/28	7/6	8/7	40/33	331/280	29/24	91/80	384/331	100/87	8/7	7/6	6/5	63/52
1	5/4	6/5	80/63	331/264	87/70	91/72	6/5	400/331	104/87	16/13	5/4	63/50	33/26
	9/7	4/3	331/252	29/22	13/10	4/3	5/4	416/331	112/87	120/91	21/16	33/25	35/26
	10/7	331/240	29/21	91/66	48/35	25/18	13/10	448/331	40/29	18/13	11/8	7/5	18/13
33	31/224	29/20	13/9	16/11	10/7	13/9	7/5	480/331	42/29	132/91	35/24	36/25	20/13
1	87/56	91/60	32/21	50/33	52/35	14/9	3/2	504/331	44/29	20/13	3/2	8/5	331/208
	13/8	8/5	100/63	52/33	8/5	5/3	63/40	528/331	140/87	144/91	5/3	331/200	87/52
	12/7	5/3	104/63	56/33	12/7	7/4	33/20	560/331	48/29	160/91	331/192	87/50	7/4
	25/14	26/15	16/9	20/11	9/5	11/6	7/4	576/331	160/87	331/182	29/16	91/50	24/13
	13/7	28/15	40/21	21/11	66/35	35/18	9/5	640/331	331/174	174/91	91/48	48/25	25/13
	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1

## META PINGALA SEEDING 3

<u>9 12 17 23</u> 32 44 61 84 116 160 221 305 421

1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
305/288	64/61	21/20	22/21	23/22	24/23	421/384	442/421	232/221	61/58	64/61	17/16	18/17
10/9	336/305	11/10	23/21	12/11	421/368	221/192	464/421	244/221	32/29	68/61	9/8	305/272
7/6	352/305	23/20	8/7	421/352	221/184	29/24	488/421	256/221	34/29	72/61	305/256	20/17
11/9	368/305	6/5	421/336	221/176	29/23	61/48	512/421	16/13	36/29	5/4	5/4	21/17
23/18	384/305	421/320	221/168	29/22	61/46	4/3	544/421	288/221	305/232	80/61	21/16	22/17
4/3	421/305	221/160	29/21	61/44	32/23	17/12	576/421	305/221	40/29	84/61	11/8	23/17
421/288	442/305	29/20	61/42	16/11	34/23	3/2	610/421	320/221	42/29	88/61	23/16	24/17
221/144	464/305	61/40	32/21	17/11	36/23	305/192	640/421	336/221	44/29	92/61	3/2	421/272
29/18	8/5	8/5	34/21	18/11	305/184	5/3	672/421	352/221	46/29	96/61	421/256	13/8
61/36	512/305	17/10	12/7	305/176	40/23	7/4	704/421	368/221	48/29	421/244	221/128	29/17
16/9	544/305	9/5	305/168	20/11	42/23	11/6	736/421	384/221	421/232	221/122	29/16	61/34
17/9	576/305	61/32	40/21	21/11	44/23	23/12	768/421	421/221	221/116	116/61	61/32	32/17
2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1

#### META PINGALA SEEDING 4

<u>10 14 19 27</u> 37 51 70 97 134 185 255 352 486

1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
11/10	185/176	194/185	102/97	18/17	28/27	243/224	85/81	268/255	70/67	37/35	38/37	20/19
37/32	97/88	204/185	108/97	56/51	9/8	255/224	268/243	56/51	74/67	38/35	40/37	22/19
97/80	51/44	216/185	112/97	81/68	85/72	67/56	280/243	296/255	76/67	8/7	44/37	185/152
51/40	27/22	224/185	243/194	5/4	67/54	5/4	296/243	304/255	80/67	44/35	5/4	97/76
27/20	14/11	243/185	255/194	67/51	35/27	37/28	304/243	64/51	88/67	37/28	97/74	51/38
7/5	243/176	51/37	134/97	70/51	37/27	19/14	320/243	352/255	185/134	97/70	51/37	27/19
243/160	255/176	268/185	140/97	74/51	38/27	10/7	352/243	74/51	97/67	51/35	54/37	28/19
51/32	67/44	56/37	148/97	76/51	40/27	11/7	370/243	388/255	102/67	54/35	56/37	243/152
67/40	35/22	8/5	152/97	80/51	44/27	185/112	388/243	8/5	108/67	8/5	243/148	255/152
7/4	37/22	304/185	160/97	88/51	185/108	97/56	136/81	144/85	112/67	243/140	255/148	67/38
37/20	19/11	64/37	176/97	185/102	97/54	51/28	16/9	448/255	243/134	51/28	67/37	35/19
19/10	20/11	352/185	185/97	97/51	17/9	27/14	448/243	162/85	255/134	67/35	70/37	37/19
2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1