# IN THE BEGINNING I (Electronic)

DAVID ROSENBOOM

1978

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# IN THE BEGINNING

# (1978-1981)

# David Rosenboom

#### General Notes on the Series of Works

The macro-title, *In the Beginning*, refers to a series of works created from 1978 through 1981. These works were written for a variety of large and small instrumental ensembles, computer-aided electronic music instruments, film/video, and synthetic speech. The last of these is, in turn, also a series of pieces, titled, *Future Travel*, documented by an LP record (Street Records) and more recently a CD (New World Records) released under the same name. All of the works focus, among other things, on the development of a unique harmonic, rhythmic and melodic language. This language takes inspiration from research on a model of proportional structures in music and on an evolving, topologically modeled theory of musical "shape" perception. There is programmatic content in the works, which relates to human beings' propensity to attempt to double themselves in both religion and technology and which develops a scenario for the evolution of human consciousness toward the birth of a macroscopic Earth-organism to which all individual entities contribute.

The *In the Beginning* system of proportions emphasizes sets of irreducible ratios with inversional symmetry and exploits both harmonic (linear) and sub-harmonic (non-linear) relations. These are used to construct cycles of growth and decay, resulting from the natural reinforcement of proportions with each other, moving toward maximum resonance and away from it. Thus, a sense of natural phasing occurs, though all movement takes place through proportional modulation by quantum steps. Additionally, stochastic methods are used to implement smooth transitions from areas where the probability is high that one or more sets of proportions will be predominant in the musical material to areas where others take over.

Many of the horizontal (ex. melodic) forms result from the use of a limited set of prototype shapes or contours. These are applied to the other musical materials (ex. pitch, rhythm, timbre) currently predominant in the space of proportions. Each section of music has its own unique shape determinants and modulation schemes. The contours themselves resulted from physiological analyses of human expressive gestures carried out in preparation for the works.

The compositions mirror nature in the creation of singularities, particles, or differentiated units of perception. They do this by making use of the idea of resonance as a key to creation within an initially smooth medium, like undifferentiated space or the undisturbed surface of a calm lake. Resonance represents the force of drawing together in patterned relationships, which outline natural ontological evolution. The harmonic and rhythmic space is the medium; the composer and performers provide the initiating force; the system of proportions articulates growth when interactions produce reinforcement and decay when they produce collisions.

Recordings for the entire *In the Beginning* series are now documented on CDs (New World Records).

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# IN THE BEGINNING I (ELECTRONIC)

# David Rosenboom

## Dekalb/Toronto 1978

The title, *In the Beginning*, refers to a rhythmic and harmonic construction for percussion, sustaining pitch, and melodic instruments. This construction is treated as a master structure from which numerous subset realizations can be created to serve the orchestrational demands of specific groups of performers.

The master structure is based on a system of proportions that emphasizes irreducible ratios (e.g. 2/11, 3/10, etc.). It exploits both harmonic and sub-harmonic relationships. The ratios are applied to all musical parameters toward which compositional attention is directed in a given realization. The relationships are used to construct cycles of growth and decay resulting from natural reinforcement of proportions moving toward maximum resonance and away from it. Thus, a sense of natural phasing occurs, though all movement takes place through proportional modulation by quantum steps. There are no strictly gradual or continuous processes, though movement from a rhythmic pattern of 11's to a pattern of 10's might give such an illusion.

Contained herein is a subset realization made for the 300 Series Electric Music Box, a computer assisted electronic music instrument developed at Buchla and Associates in Berkeley, California. At the heart of this system lies a computer language for composition and live performance, called PATCH-IV. In order to thoroughly understand and attempt to make a realization of this score one would naturally need to become familiar with its programming language. This can be accomplished by referring to the *User's Guide to PATCH-IV and the Series 300 Electric Music Box*. Nevertheless, it is hoped that sufficient information is presented here to enable one to gain a sense of the materials of the piece, especially in association with a hearing of it. A complete enough representation is presented for anyone who is familiar with PATCH-IV and has access to a 300 Series system to make a realization. Similar realizations may be developed for other systems and instrumental combinations.

A few definitions of symbols used in the score are provided here to assist those not familiar with PATCH-IV.

- K\_\_\_\_\_ a numbered key used as an abstract definition of an action stimulus. Keys may either be DEF (definition) keys or STM (stimulus) keys. DEF keys make STM keys available for action or change their meaning during the course of a program. STM keys are always associated with an action response, which takes place immediately upon the key being activated.
- VFN a computer controlled, time-variant, function designation always associated with a voltage output port number.
- VLT a computer controlled, voltage offset designation always associated with an output port number.
- VSM a computer controlled, voltage source and multiplier designation always associated with a voltage input and an output port number.

SOURCE a voltage source input available to computer controlled VSM designations with an input port number.

Each box in the following system configuration diagrams contains a list of all parameters that are controlled during a performance of the piece. Those not associated with a computer control function are manually tuned and/or varied during the performance for best sound.

The piece proceeds through seven sections plus a short introduction. The proportions of lengths of the sections are derived from the following set, (1/2, 1/3, 2/3). The character of each section is determined by the primary set of proportions emphasized within it. These proportions are applied in the realms of pitch, rhythms articulated by eleven "percussion" instruments, timbre and waveform modulation cycles, and note duration values for four sustained pitch voices. The proportions used in each section are detailed in a ratio usage table, which follows.

Following this are two tables, which show the initial diad sets of tones used to articulate the given proportions in the pitch domain. These initial sets plus the ratio usage table are used to derive the source sets of chords used for each section of the composition. These chords are listed subsequently. Finally, the initial rhythm set, the waveform and timbre control function set, and the note duration set are all used to articulate the same primary groups of proportions.

The percussion instruments, which articulate the rhythms, are derived from spectrally segmented and gated white noise. The instruments each have center frequency tendencies, which form three groups of constant "Bark" interval pitch centers. Control sequences, which cause given instruments to play given rhythms, make use of cycles that add the 11/13 proportion to the primary set of ratios.

Once the performer becomes very familiar with the character and operation of the program for the composition, he may wish to interact manually with the running program to subtly alter the distributions, particularly in Section 4. Additionally, he/she is free to perform simple melodic improvisations over various sections using the mode specified in its ascending and descending forms. The basic character and flow of the piece, together with the personalities of the sections, should always be maintained, however.

The system configuration diagrams are based on modules of the 300 Series system. All lines interconnecting boxes are patch connections that must be made by the performer.

Lastly, a PATCH-IV listing of the complete composition form description is provided, which may be used directly to realize the piece. The listing consists of three tables. The PATCH TABLE lists all stimulus-response definitions including performable keyboard actions. The FUNCTION TABLE lists all time-variant voltage function descriptions, which may be accessed at any of the voltage output ports according to definitions contained in the PATCH TABLE. The SEQUENCE TABLE contains a list of timed, sequential actions, which are cycled in various ways by a number of software sequencers and their associated counters. This table contains the master list of all sequential actions programmed for the composition.

After the equipment is set up and the program loaded into the computer, the waveform generators must be tuned. Activating K43 (key number 43) will define all pitch control keys. The system may then be tuned by using the keys listed in the initial diad set tables. To let the composition play in its automatic performance mode, activate K82 followed by K98. This will start the master control sequencer, which will in turn activate the processes required by each section. The computer clock must be adjusted for the indicated tempo. Further examination of the program listing will reveal the actions programmed for other keys, which may be activated during a performance in order to interact with the running program in real time.

### RATIO USAGE TABLE

Section 1	7/6, 11/2, plus reciprocals and results of combinations and octave transpositions of individual voices
Section 2	8/5, 10/3, plus reciprocals and results of combinations and octave transpositions of individual voices
Section 3	7/6, 9/4, plus reciprocals and results of combinations and octave transpositions of individual voices
Section 4	1/12, 2/11, 3/10, 4/9, 5/8, 6/7, 1/2, 2/3, 3/4, 4/5, 5/6, 7/8, 8/9, 9/10, 10/11, 11/12, plus reciprocals
Section 5	all the ratios of Section 4 with greater emphasis given to the ratios of Section 3.
Section 6	all the ratios of Section 4 with greater emphasis given to the ratios of Section 2.
Section 7	all the ratios of Section 4 with greater emphasis given to the ratios of Section 1.
Note:	When referring to pitch, a ratio expresses a quantitative relationship among the frequencies of two tones (diad) and not to the tuning of a single note, as defined by H. Partch. Similarly, when referring to rhythmic patterns, durations, control functions, waveforms, and other things, a ratio also expresses a quantitative relationship between two items.

INITIAL DIAD SET 1:



STM (stimulus) key nos.

	Kl2	Kl4	K15	Kl7	K1 9	K20
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Note: A VLT\_\_\_\_ XX step of one results in a pitch step of approximately one-fourth tone, (quarter step). INITIAL DIAD SET 2:



STM (stimulus) key nos.

K22	K24	K26	K2 <b>7</b>	К29	K31
K22	K24	K26	K27	K29	K31



CHORDAL SOURCE SETS

SECTIONS 1 & 7: SECTIONS 2 & 6: SECTIONS 3 & 5:





INITIAL RHYTHM SET,  $\downarrow \approx 65$  MM: DEF (definition) key nos.:

> **K**32 K33 3 K34 K35 K36 6 K37 K38 K39 K40 K41 K42 È K49 (rest)

# "PERCUSSION" INSTRUMENT SET:

STM (stimulus) key nos.:

KOl	250	Hz	center	frequency
K02	350	Hz	11	н
к03	500	Hz	81	88
к04	630	Hz	88	81
к05	1.0	KHz	11	81
к06	1.3	KHz	ŧ	81
к0 <b>7</b>	1.6	KHz	88	88
к08	2.6	KHz	83	88
к09	3.5	KHz		81
KI O	5.0	KHz		81
Kll	8.0	KHz	88	

WAVEFORM AND TIMBRE CONTROL FUNCTION SET:



STM	(stimulus)	key nos:	t ratios	t=	
	K59		11	10.12	secs.
	K61		10	9.20	
	K63		9	8.28	88
	K71		8	7.36	
	К <b>7</b> 3		7	6.44	88
	к <b>7</b> 5		6	5.52	11

# NOTE DURATION TABLE

Duration	values	in	seconds:		Approxim
00.92					l
01.84				-	2
02.76				-	3
03.68				-	4
04.60				-	5
05.52		-			6
06.44					7
07.36					8
08.28					9
09.20					10
10.12				-	11

Approximate ratios:

# IN THE BEGINNING (ELECTRONIC)

#### SYSTEM CONFIGURATION DIAGRAMS







#### PATCH TABLE

These blocks select rhythmic cycles from the set of thirteen function specifications defined for each of the eleven "percussion" instruments.

EF S	IM ADDF	(D L	νA	
K01	VFN16	01		
K02	VFN17	01		
К0З	UFN18	01		
K04	UEN19	ñ 1		
LAS	115170	01		
1/00		01	rhythm l	
KUO	VENZI	01		
KU/	VFNZZ	01		
K08	VENZ3	01		
K09	VFN24	01		
K10	VFN25	01		
K11	VFN26	01		
K01	VFN16	05	free and the second	
K02	VFN17	05		
K03	UEN18	05		
100	UENIQ	05		
1/05	VI 181 7	00		
KUD	VENZU	0.0	rhythm 2	
KUO	VFNZI	05	-	
KU7	VENZZ	05		
K08	VFN23	05		
K09	VFN24	05		
K 1. 0	VFN25	05		
K11	VFN26	05		
K 0 1	UFN16	09	÷	
K02	UFN17	nφ		
102	VENTO	00		
100	VENTO	07		
RUM	VENIY	09		
K05	VENZO	09	rhythm 3	
K06	VFN21	09		
K07	VFN22	09		
K08	VFN23	09		
K09	VFN24	09		
K10	VFN25	09		
К11	VFN26	09		
K01	UFN16	0D	P	
K02	UFN17	ñ D		
LUD2	HE'NHO	nn		
IV D Z	ALMTO	00		
		00		
KUD	VFNZU	00	rhythm 4	
K06	VFNZ1	00	<b>_</b>	
K07	VFN22	0 D		
K08	VFN23	0 D		
K09	VFN24	0 D		
K10	VFN25	0 D		
K11	VFN26	0 D		
K 0 1	VFN16	11	(	
K02	UFN17	11		
K02	UENIO	11		
1.00	AL BURD	 		
r\ U "1		4.4		
17.0 m	C 1 m (51 / 11)	11		
K05	VF 182.0		rhvthm 5	
K05 K06	VFN21	11	rhythm 5	
K05 K06 K07	VFN21 VFN22	11 11	rhythm 5	
K05 K06 K07 K08	VFN21 VFN22 VFN23	11 11 11	rhythm 5	
	KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	K01VFN16K01VFN17K02VFN17K03VFN18K04VFN19K05VFN20K06VFN21K07VFN22K08VFN22K09VFN24K10VFN16K01VFN17K03VFN17K04VFN20K05VFN21K07VFN22K08VFN22K09VFN22K07VFN22K08VFN24K10VFN17K03VFN16K01VFN17K03VFN18K04VFN20K06VFN22K08VFN22K09VFN24K10VFN17K03VFN18K04VFN25K11VFN26K01VFN17K03VFN27K04VFN28K07VFN27K08VFN27K07VFN28K07VFN27K08VFN27K07VFN28K07VFN27K08VFN27K07VFN28K07VFN27K08VFN27K07VFN28K07VFN27K08VFN27K07VFN28K07VFN27K08VFN27K07VFN27K08VFN27K07VFN27K08VFN27K07VFN27K08VFN27 <td< td=""><td>K01VFN1601K01VFN1701K02VFN1701K03VFN1801K04VFN1901K05VFN2001K06VFN2101K07VFN2201K08VFN2301K07VFN2401K10VFN2501K11VFN2601K01VFN1605K02VFN1705K03VFN1805K04VFN2005K05VFN2205K07VFN2405K10VFN2505K11VFN2605K01VFN1609K02VFN1709K03VFN1809K04VFN2109K05VFN2209K06VFN2309K07VFN2509K01VFN1600K02VFN1700K03VFN1800K04VFN2509K01VFN2609K03VFN1800K04VFN2000K05VFN2000K06VFN2100K07VFN2200K08VFN2300K07VFN2400K07VFN2500K07VFN2600K07VFN2600K07VFN2600K07VFN2600K07<!--</td--><td>K01       VFN16       01         K02       VFN17       01         K03       VFN18       01         K04       VFN20       01       rhythm       1         K05       VFN20       01       rhythm       1         K06       VFN21       01       rhythm       1         K07       VFN22       01       rhythm       1         K07       VFN24       01       1       1         K01       VFN16       05       1       1         K01       VFN16       05       1       1         K01       VFN26       01       1       1         K01       VFN16       05       1       1         K03       VFN18       05       1       1         K04       VFN22       05       1       1         K07       VFN24       05       1       1         K04       VFN17       09       1       1         K05       VFN20       09       1       1         K04       VFN17       00       1       1         K05       VFN20       09       1       1      <tr< td=""></tr<></td></td></td<>	K01VFN1601K01VFN1701K02VFN1701K03VFN1801K04VFN1901K05VFN2001K06VFN2101K07VFN2201K08VFN2301K07VFN2401K10VFN2501K11VFN2601K01VFN1605K02VFN1705K03VFN1805K04VFN2005K05VFN2205K07VFN2405K10VFN2505K11VFN2605K01VFN1609K02VFN1709K03VFN1809K04VFN2109K05VFN2209K06VFN2309K07VFN2509K01VFN1600K02VFN1700K03VFN1800K04VFN2509K01VFN2609K03VFN1800K04VFN2000K05VFN2000K06VFN2100K07VFN2200K08VFN2300K07VFN2400K07VFN2500K07VFN2600K07VFN2600K07VFN2600K07VFN2600K07 </td <td>K01       VFN16       01         K02       VFN17       01         K03       VFN18       01         K04       VFN20       01       rhythm       1         K05       VFN20       01       rhythm       1         K06       VFN21       01       rhythm       1         K07       VFN22       01       rhythm       1         K07       VFN24       01       1       1         K01       VFN16       05       1       1         K01       VFN16       05       1       1         K01       VFN26       01       1       1         K01       VFN16       05       1       1         K03       VFN18       05       1       1         K04       VFN22       05       1       1         K07       VFN24       05       1       1         K04       VFN17       09       1       1         K05       VFN20       09       1       1         K04       VFN17       00       1       1         K05       VFN20       09       1       1      <tr< td=""></tr<></td>	K01       VFN16       01         K02       VFN17       01         K03       VFN18       01         K04       VFN20       01       rhythm       1         K05       VFN20       01       rhythm       1         K06       VFN21       01       rhythm       1         K07       VFN22       01       rhythm       1         K07       VFN24       01       1       1         K01       VFN16       05       1       1         K01       VFN16       05       1       1         K01       VFN26       01       1       1         K01       VFN16       05       1       1         K03       VFN18       05       1       1         K04       VFN22       05       1       1         K07       VFN24       05       1       1         K04       VFN17       09       1       1         K05       VFN20       09       1       1         K04       VFN17       00       1       1         K05       VFN20       09       1       1 <tr< td=""></tr<>

K36 K36	K10 K11	VFN25 VFN26	11 11		
K37 K37 K37 K37 K37 K37 K37 K37 K37 K37	K01 K02 K03 K04 K05 K06 K07 K08 K07 K08 K09 K10 K11	VFN16 VFN17 VFN18 VFN19 VFN20 VFN21 VFN22 VFN22 VFN23 VFN24 VFN25 VFN26	$15 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15 \\$	rhythm	6
K38 K38 K38 K38 K38 K38 K38 K38 K38 K38	K01 K02 K03 K04 K05 K05 K05 K07 K08 K09 K10 K11	VFN16 VFN17 VFN18 VFN19 VFN20 VFN21 VFN22 VFN22 VFN23 VFN24 VFN25 VFN26	19 19 19 19 19 19 19 19 19 19	rhythm	7
K39 K39 K39 K39 K39 K39 K39 K39 K39 K39	K01 K02 K03 K04 K05 K06 K07 K08 K07 K10 K11	VFN16 VFN17 VFN18 VFN19 VFN20 VFN21 VFN22 VFN23 VFN23 VFN24 VFN25 VFN26	23 23 23 23 23 23 23 23 23 23 23 23 23 2	rhythm	8
ド40 ド40 ド40 ド40 ド40 ド40 ド40 ド40 ド40	K01 K02 K03 K04 K05 K06 K07 K08 K09 K10 K11	VFN16 VFN17 VFN18 VFN19 VFN20 VFN20 VFN22 VFN22 VFN22 VFN23 VFN24 VFN25 VFN26	27 27 27 27 27 27 27 27 27 27 27 27	rhythm	9
К41 К41 К41 К41 К41 К41 К41 К41 К41 К41	K01 K02 K03 K04 K05 K06 K07 K08 K07 K10 K11	VFN16 VFN17 VFN18 VFN19 VFN20 VFN21 VFN22 VFN23 VFN23 VFN24 VFN25 VFN26	31 31 31 31 31 31 31 31 31 31	rhythm	10
K42 K42 K42 K42 K42 K42 K42 K42 K42 K42	K01 K02 K03 K04 K05 K05 K07 K08	VFN16 VFN17 VFN18 VFN19 VFN20 VFN21 VFN22 VFN23 VFN24	35 35 35 35 35 35 35 35 35 35 35 35 35	rhythm	11





# FUNCTION TABLE

1 N-	TIME-	T	VL.	CTRL
0.0	00.001		00	STOP
01	00.001		C7	
02	00.120	I	03	
03	00.800	T.	00	J 01
04	00.001		00	STOP
05	00.001		C7	
06	00.080	I	03	
07	00.380	I	00	J 05
80	00.001		00	STOP
09	00.001		C7	
0 A	00.080	Ï	03	
0 B	00.227	Ι	00	J U9
00	00.001		00	STUP
00	00.001	<b></b> .	07	
UE.	00.000	1	03	1.05
UF	00+1/0	Л.	00	
10	00+001		00	STOP
11	00 000	· <b>Y</b> ·	し/ のつ	
-1. Z. -1. Z.	00+030	א. יי	0.0	1 1 1
13	00+1.57	<b>.i</b> .	00	0 11 0 11
1.7	00+001		00	0101
1 4	00.040	т	03	
17	00.113	T	00	.1 15
18	00.001		ññ	STOP
19	00.001		C7	
14	00.030	Τ	03	
1.E	00.101	ī	00	J 19
1 C	00.001		0.0	STOP
1.D	00.001		0 0	STOP
1.E	00.001		0 0	STOP
1. F	00.001		00	STOP
20	00.001		0 0	STOP
21	00.001		00	STOP
22	0.0 + 0.01		00	STOP
23	00.001		C7	
24	00.030	1	10	
25	00.085	1	00	J 23
26	00+001		00	STUP
27	00.001	••••	U7	
28	00+020	.L. T	10	1 27
27	00+0//	Л.	00	
200	00+001		00	STOP
20	00+001		00	STOP
20	00+001		0.0	STOP
<u>たい</u> クロ	00.001		0.0	STOP
2E 2E	60.001		00	STOP
30	00.001		0.0	STOP
31	00.001		Č7	
<b>***</b>				

cyclical rhythm functions

32	00.024	Ι	10			
33	860.00	I	00	J 31		
34	00.001		00	STOP		
35	00.001		C7			
36	00.020	I	10			
37	00.064	1	00	J 35		
38	00 + 001		00	STOP		
39	00.001		00	STOP		
ЗA	00.001		00	STOP		
38	00.001		00	STOP		
30	00.001		00	STUP		
3D	00.001		00	STUP		
3E	00+001		00	STUP		
3F	00.001		00	SIUP		
40	05.059	<u> </u>	07	1 40		
41	05.059	1.	00	U *10		
42	04.595	1	0.7	1 40		
43	04+070	- -	00	UTA		
44	04 101		0.0	1 22	aval	ical timbro
40 47	07 407	.L. T	00	0 11	cont:	col functions
110 // 12	03+004	т. Т	0.0	1 4 4	CONCI	Of functions
Ϋ́/	03+002	ц. Т	00	0 10		
10	00+210	T	0.0	.1 40		
ч7 ДА	03+210	ר ד	00	0 10		
40	02+702	T	0.0	.1 46		
40	02.+702	<b></b> .	00	STOP		
4n	00.001		nn	STOP		
45	00,001		n n	STOP		
45	00,001		00	STOP		
50	19,972	T	ČŐ	STOP	 fade	up
51	19.972	ī	00	STOP	 fade	down
					-	

~

5

#### SEQUENCE TABLE

ACT1 ACT2 ACT3 LN TIME - rhythmic pattern sequencer 1 00 00.00 STOP 01 00.00 K 01 sequentially starts or stops ("rests") 02 00.92 K 02 each "percussion" instrument with a 03 00.92 K 03 predefined rhythmic pattern 04 00.92 K 04 05 00.92 K 05 06 00.92 K 06 07 00.92 K 07 08 00.92 K 08 09 00.92 K 09 0A 00.92 K 10 0B 00.92 K 11 0C 00.92 J 01 0D 00.00 STOP OE 00.00 A=00 D=00 C=00 ----- rhythmic pattern sequencer 2 0F 00.92 K 01 INRD INRC 10 00.00 SD11 J OF 11 00.00 D=00 INRA 12 00.92 K 06 INRD INRC 13 00.00 SD11 J 12 14 00.00 D=00 INRA 15 00.92 K 11 INRD INRC 16 00.00 SD11 J 15 17 00.00 D=00 INRA 18 00.92 K 02 INRD INRC 19 00.00 SD11 J 18 1A 00.00 D=00 INRA 18 00.92 K 07 INRD INRC 1C 00.00 SD11 J 1B 1D 00.00 D=00 INRA 1E 00.92 K 10 INRD INRC 1F 00.00 SD11 J 1E 20 00.00 D=00 INRA 21 00.92 K 03 INRD INRC 22 00,00 SD11 J 21 23 00.00 D=00 INRA 24 00.92 K 05 INRD INRC 25 00.00 SD11 J 24 26 00.00 D=00 INRA 27 00.92 K 09 INRD INRC 28 00.00 SD11 J 27 29 00.00 D=00 INRA 2A 00.92 K 04 INRD INRC 28 00.00 SD11 J 2A 2C 00.00 D=00 INRA 2D 00.92 K 08 INRD INRC 2E 00,00 SD11 J 2D 2F 00.00 D=00 INRA 30 00.92 INRD INRC 31 00.00 SD11 J 30 32 00.00 D=00 INRA 33 00.92 INRD INRC

36       00.00       STOP         37       00.00       STOP       Frythmic pattern sequencer 3         37       00.00       SD13       J38         38       00.02       K 04       INRC         38       00.02       K 04       INRC         38       00.02       K 04       INRE         38       00.02       K 04       INRE         38       00.02       K 04       INRE         39       00.00       D=00       INRE         30       00.00       D=00       INRE         40       0.00       D=00       INRE         41       00.92       K 05       INRE         42       00.00       D=00       INRE         47       00.92       K 01       INRE         47       00.92       K 01       INRE         48       00.00       D=00       INRE         50       00.00       D=00	34	00.00	SD11 TNRA	J 33 STOP										
37       ñ0.00       B=n0       D=00       C=00       → rhythmic pattern sequencer 3         38       00.00       SD13       J 38         40       0.00       D=01       INRE         38       00.00       D=01       INRE         38       00.00       D=01       INRE         38       00.00       D=00       INRE         38       00.00       D=00       INRE         38       00.00       D=00       INRE         37       00.00       D=00       INRE         40       00.00       D=00       INRE         41       00.72       K 03       INRD         42       00.00       D=00       INRE         44       00.00       D=00       INRE         47       00.72       K 03       INRD         48       00.00       SD13       J 44         46       00.00       SD13       J 44         47       00.72       K 03       INRE         48       00.00       SD13       J 40         47       00.92       K 11       INRE         50       00.00       SD13       J 53	36	00.00	STOP	0101										
38 00.92 K 08 INRD INRC 39 00.00 D=00 INRE 30 00.00 D=00 INRE 30 00.00 D=01 INRE 30 00.00 D=01 INRE 30 00.00 D=01 INRE 41 00.92 K 09 INRD INRC 41 00.92 K 05 INRD INRC 42 00.00 D=00 INRE 41 00.92 K 03 INRD INRC 43 00.00 D=00 INRE 44 00.92 K 03 INRD INRC 45 00.00 D=00 INRE 40 00.92 K 10 INRD INRC 45 00.00 D=00 INRE 40 00.92 K 10 INRD INRC 48 00.00 D=00 INRE 40 00.92 K 10 INRD INRC 50 00.00 D=00 INRE 50 00.00 SD13 J 53 50 00.00 INRE STOF 50 00.00 INRE INRE 50 00.00 INRE STOF 50 00.00 INRE INRE 50 00.00 INRE INRE 5	37	00.00	B=00	D=00	C=00	\$	rhythm	nic ;	patte	rn se	que	ncer	3	
39       00.00       5D13       J       3B         38       00.00       D=00       INKE         340       00.00       D=00       INKE         41       00.72       K       05       INKE         42       00.00       D=00       INKE         44       00.00       D=00       INKE         47       00.02       K       05       INKE         47       00.00       D=00       INKE         47       00.00       D=00       INKE         47       00.00       D=00       INKE         48       00.00       SD13       J       40         40       0.00       SD13       J       40         40       0.00       SD13       J       40         40       0.00       SD13       J       40         51       00.00       SD13       J       40         52       00.00	38	00.92	K 08	INRD	INRC									
3A 00.00 D=00 INRE 3E 00.92 K 04 INRD INRC 3E 00.00 D=00 INRE 4E 00.00 D=00 INRE 4E 00.00 D=00 INRE 41 00.92 K 05 INRD INRC 41 00.92 K 05 INRD INRC 42 00.00 SD13 J 4 43 00.00 D=00 INRE 44 00.92 K 03 INRD INRC 45 00.00 SD13 J 44 46 00.00 D=00 INRE 47 00.92 K 10 INRD INRC 48 00.00 SD13 J 44 40 0.92 K 03 INRD INRC 47 00.92 K 10 INRD INRC 48 00.00 SD13 J 47 49 00.00 D=00 INRE 40 00.00 SD13 J 44 40 00.92 K 07 INRD INRC 48 00.00 SD13 J 44 40 00.92 K 07 INRD INRC 40 00.00 D=00 INRE 40 00.00 SD13 J 44 40 00.92 K 07 INRD INRC 50 00.92 K 07 INRD INRC 50 00.92 K 07 INRD INRC 51 00.00 SD13 J 50 52 00.00 D=00 INRE 50 00.92 K 06 INRD INRC 51 00.00 SD13 J 53 52 00.00 D=00 INRE 54 00.00 SD13 J 54 55 00.00 SD13 J 56 55 00.00 INRE STOF 55 00.00 K 13 K 14 55 00.00 K 13 K 14 56 00.00 K 13 K 14 57 00.00 K 13 K 14 50 01.84 J 57 55 05.52 K 23 K 29 56 05.52 K 13 K 20 57 05.52 K 13 K 12 56 00.00 K 13 K 15 57 00.00 K 13 K 14 50 00.00 K 18 K 15 50 00.00	39	00.00	SD13	J 38										
38 00.92 K 04 INRD INRC 30 00.00 D=00 INRB 30 00.00 SD13 J 3E 40 00.00 SD13 J 3E 41 00.92 K 09 INRD INRC 41 00.92 K 05 INRD INRC 42 00.00 D=00 INRB 44 00.92 K 03 INRD INRC 45 00.00 D=00 INRB 47 00.92 K 10 INRD INRC 48 00.00 SD13 J 44 46 00.00 D=00 INRB 47 00.92 K 10 INRD INRC 48 00.00 SD13 J 47 49 00.00 D=00 INRB 40 00.92 K 07 INRD INRC 48 00.00 D=00 INRB 40 00.92 K 07 INRD INRC 40 00.00 D=00 INRB 50 00.92 K 02 INRD INRC 51 00.00 D=00 INRB 53 00.92 K 01 INRD INRC 53 00.92 K 04 INRD INRC 53 00.92 K 04 INRD INRC 54 00.00 D=00 INRB 55 00.00 L=00 INRB 55 00.00 L=00 INRB 55 00.00 L=00 INRB 56 00.92 K 11 INRD INRC 57 00.00 K 13 K 14 57 00.00 K 13 K 14 56 00.92 K 13 K 14 57 00.00 K 13 K 14 50 00.00 K 13 K 15 50 00.00 K 18 K 17 50 00.00 K 18 K 17 50 00.00 K 18 K 19 50 00.00 K 18 K 25 K 24 50 00.00 K 25 K 24 5	ЗA	00.00	D=00	INRE										
3C 00.00 5D13 J 38 3E 00.00 D=00 INRE 3E 00.00 D=01 INRE 41 00.92 K 05 INRD INRC 42 00.00 SD13 J 41 43 00.00 D=00 INRE 44 00.92 K 03 INRD INRC 45 00.00 SD13 J 44 46 00.00 D=00 INRE 47 00.92 K 10 INRD INRC 48 00.00 D=00 INRE 46 00.00 D=00 INRE 47 00.00 D=00 INRE 40 00.00 D=00 INRE 40 00.00 D=00 INRE 40 00.00 D=00 INRE 40 00.00 D=00 INRE 50 00.00 D=00 INRE 50 00.92 K 07 INRD INRC 42 00.00 D=00 INRE 50 00.92 K 07 INRD INRC 51 00.00 SD13 J 44 52 00.00 D=00 INRE 53 00.92 K 11 INRD INRC 54 00.00 SD13 J 50 52 00.00 D=00 INRE 53 00.92 K 11 INRD INRC 54 00.00 SD13 J 50 55 00.00 D=00 INRE 56 00.02 K 01 INRD INRC 57 00.00 SD13 J 50 58 00.00 INRE STOP 59 00.00 K 13 K 14 50 00.02 K 13 K 14 50 00.00 K 13 K 14 51 00.00 K 13 K 14 50 00.00 K 13 K 15 50 00.00 K 13 K 17 50 00.00 K 14 K 25 50 00.00 K 18 K 15 50 00.00 K 18 K 10 50 00.00 K 18 K 10 50 00.00 K 18 K 25 50 00.	ЗB	00.92	K 04	INRD	INRC									
30 00.00 D=00 INRE 37 00.00 SD13 J 3E 41 00.92 K 05 INRD INRC 42 00.00 SD13 J 41 43 00.00 D=00 INRE 44 00.92 K 03 INRD INRC 45 00.00 D=00 INRE 47 00.92 K 03 INRD INRC 46 00.00 D=00 INRE 47 00.92 K 10 INRD INRC 48 00.00 SD13 J 44 40 00.92 K 10 INRD INRC 48 00.00 D=00 INRE 40 00.92 K 07 INRD INRC 48 00.00 D=00 INRE 40 00.92 K 07 INRD INRC 48 00.00 D=00 INRE 40 00.92 K 07 INRD INRC 40 00.92 K 07 INRD INRC 50 00.92 K 11 INRD INRC 51 00.00 D=00 INRE 52 00.00 D=00 INRE 53 00.92 K 11 INRD INRC 54 00.00 D=00 INRE 55 00.00 D=00 INRE 55 00.00 SD13 J 50 55 00.00 D=00 INRE 56 00.00 SD13 J 53 55 00.00 D=00 INRE 57 00.00 K 11 KRD INRC 58 00.00 INRE STOP 59 00.00 K 11 K 14 50 01.84 J 59 55 00.00 K 21 K 22 57 05.52 K 23 K 29 50 06.92 K 12 INRO INRC 53 00.92 K 14 INRO INRC 54 00.00 K 18 K 14 50 01.84 J 59 55 00.00 K 21 K 22 57 05.52 K 23 K 29 56 00.00 K 18 K 14 57 00.00 K 18 K 14 50 01.84 J 59 57 00.00 K 18 K 15 54 00.00 K 25 K 22 57 02.76 J 63 58 00.00 K 18 K 15 59 00.00 K 18 K 15 50 00.00 K 18 K 10 50 00.00 K 18 K 25 K 24 50 00.00 K 25 K 25 K 24 50 00.00 K 25 K 25 K 24 50 00.00 K 25 K 25 K 24 50	30	00.00	SD13	9 3B										
3E 00.00 5013 J 3E 40 00.00 D=00 INRE 41 00.92 K 05 INRD INRC 42 00.00 SD13 J 41 43 00.00 D=00 INRE 44 00.92 K 03 INRD INRC 45 00.00 D=00 INRE 47 00.92 K 10 INRD INRC 48 00.00 D=00 INRE 47 00.00 D=00 INRE 48 00.00 D=00 INRE 40 00.92 K 07 INRD INRC 48 00.00 D=00 INRE 40 00.92 K 07 INRD INRC 48 00.00 D=00 INRE 40 00.92 K 02 INRD INRC 48 00.00 SD13 J 40 40 00.92 K 02 INRD INRC 48 00.00 D=00 INRE 50 00.92 K 11 INRD INRC 50 00.92 K 12 INRD INRC 51 00.00 D=00 INRE 52 00.00 D=00 INRE 53 00.92 K 04 INRD INRC 54 00.00 D=00 INRE 55 00.00 LNRE STOF 57 00.00 SD13 J 50 55 00.00 LNRE STOF 57 00.00 K 13 K 14 55 00.00 K 13 K 14 56 00.92 K 11 K 22 57 00.00 K 13 K 14 50 01.04 K 16 K 12 50 00.00 K 18 K 15 64 07.36 K 16 K 19 64 07.36 K 16 K 19 65 04.60 K 13 K 15 66 09.20 K 18 K 15 66 09.20 K 18 K 15 66 09.20 K 18 K 17 67 02.76 J 38 60 00.00 K 25 K 27 60 04.40 K 21 K 22 61 04.60 K 21 K 24 62 00.00 K 13 K 17 63 00.00 K 13 K 17 64 07.36 K 16 K 19 65 04.60 K 21 K 22 65 05.52 K 13 K 20 66 09.20 K 18 K 17 67 02.76 J 36 60 00.00 K 25 K 27 60 04.40 K 21 K 22 70 04.60 K 21 K 22 70 04.60 K 25 K 27 67 05.52 K 28 K 27 67 05.52 K 25 K 26 67 05.52 K 27 K 25 70 05.52 K 27 K 25 70 05.52 K 25 K 26 70 05.	ЗD	00.00	D=00	INRE										
37       00.100       SD13       J 34         41       00.92       K       05       INRE         42       00.00       SD13       J 41         43       00.92       K       03       INRE         44       00.92       K       03       INRE         44       00.92       K       03       INRE         44       00.92       K       03       INRE         47       00.92       K       10       INRE         47       00.92       K       10       INRE         47       00.92       K       10       INRE         48       00.00       D=00       INRE         49       00.00       D=00       INRE         40       00.00       D=00       INRE         40       00.00       D=00       INRE         51       00.00       D=00       INRE         52       00.00       D=00       INRE         53       00.00       D=00       INRE         54       00.00       D=00       INRE         56       00.00       INRE       S         50       0.00       <	3E	00.92	K 09	INRD	INRC									
<pre>40 00.00 J=00 INRE 41 00.72 K 05 INRD INRC 42 00.00 SD13 J 41 43 00.00 D=00 INRE 44 00.72 K 10 INRD INRC 45 00.00 SD13 J 44 47 00.72 K 10 INRD INRC 48 00.00 SD13 J 47 49 00.00 D=00 INRE 40 00.72 K 07 INRD INRC 48 00.00 SD13 J 4A 40 00.72 K 07 INRD INRC 48 00.00 SD13 J 4A 40 00.72 K 07 INRD INRC 48 00.00 SD13 J 4A 40 00.72 K 11 INRD INRC 50 00.92 K 11 INRD INRC 51 00.00 D=00 INRE 53 00.72 K 06 INRD INRC 54 00.00 D=00 INRE 55 00.00 D=00 INRE 55 00.00 D=00 INRE 56 00.92 K 11 INRD INRC 57 00.00 SD13 J 53 55 00.00 D=00 INRE 56 00.92 K 11 INRD INRC 57 00.00 SD13 J 56 58 00.00 INRE STOP 59 00.00 K 13 K 14 50 01.64 K 15 K 22 51 01.12 K 18 K 14 50 01.64 K 21 K 22 51 01.12 K 18 K 14 52 00.00 K 13 K 15 53 00.00 K 18 K 15 54 00.00 K 18 K 15 54 00.00 K 18 K 15 55 00.00 ON K 18 K 15 55 00.00 ON K 18 K 15 56 00.00 K 18 K 15 57 00.00 K 18 K 15 58 00.00 K 18 K 15 59 00.00 K 18 K 15 50 00.00 K 21 K 22 50 00.00 K 18 K 15 50 00.00 K 21 K 22 50 0</pre>	3F	00.00	SD13	J 3E										
1       00.00       PEND       INRC         43       00.00       D=00       INRC         44       00.92       K       03       INRC         45       00.00       SD13       J       44         45       00.00       SD13       J       44         45       00.00       SD13       J       47         45       00.00       SD13       J       47         47       00.92       K       NRKD       INRC         48       00.00       D=00       INRE       44         40       0.00       PEND       INRC         44       00.92       K       V7       INRD         40       0.00       SD13       J       44         40       0.00       SD13       J       44         40       0.00       SD13       J       45         50       0.00       D=00       INRE       55         51       00.00       SD13       J       55         52       0.00       D=00       INRE       55         53       00.00       D=01       INRE       55         54       0	41U 21-1			TADA	TARCO									
72       00:100       D=100       INRE         74       00:92       K 03       INRD       INRC         74       00:92       K 10       INRE       INRC         75       00:00       D=100       INRE         76       00:92       K 10       INRD       INRC         77       00:00       D=100       INRE         77       00:00       D=100       INRE         77       00:00       SD13       J 47         70       00:00       SD13       J 40         70       00:00       SD13       J 40         70       00:00       SD13       J 50         50       00:00       SD13       J 53         51       00:00       SD13       J 53         52       00:00       SD13       J 53         53       00:00       SD13       J 53         56       00:00       SD13       J 53         57       00:00       SD13       J 53	11	00+72	K 00		THAC									
13       0100       2       K       K         14       000       SD13       J       44         15       000       SD13       J       44         16       000       SD13       J       47         17       000       D=00       INRE       47       000       D=00         18       000       SD13       J       47       40       <	42	00+00	D=00	TNEE										
11       00.00       SD13 J 44         46       00.00       SD13 J 47         47       00.92 K 10       INRD INRC         48       00.00       SD13 J 47         49       00.00       D=00       INRE         47       00.92 K 07       INRD INRC         48       00.00       SD13 J 4A         40       0.92 K 07       INRD INRC         48       00.00       SD13 J 4A         40       0.00       SD13 J 4A         40       0.92 K 07       INRD INRC         40       0.00       SD13 J 4A         40       0.00       SD13 J 50         50       00.00       SD13 J 50         51       00.00       SD13 J 53         53       00.00       SD13 J 56         54       00.00       SD13 J 56         58       00.00       N13 K 14         50       00.00       K 14 K 12         50       1.84 K 14       20         5	44	00+00	N 0.3	TNED	TNEC									
13       00.00       D=00       INRE         47       00.92       K 10       INRD       INRC         48       00.00       SD13       J       47         47       00.00       DS013       J       47         48       00.00       SD13       J       47         40       00.92       K 07       INRD       INRC         48       00.00       SD13       J       40         40       00.92       K 02       INRD       INRC         41       00.00       SD13       J       40         42       00.00       SD13       J       40         41       00.00       SD13       J       40         42       00.00       SD13       J       50         53       00.00       SD13       J       50         54       00.00       SD13       J       53         55       00.00       SD13       J       53         56       00.92       K 11       INRD       INRC         57       00.00       K 18       K 12       50         57       01.64       K 16       20       50	25	00+72	CD13	.1 44	1111111									
10       00.02       X       10       NRD       INRC         48       00.00       SD13       J       47         40       00.00       SD13       J       47         40       00.00       D010       INRE         40       00.00       D013       J       44         40       00.00       SD13       J       40         47       00.02       K       10       INRE         50       00.02       K       11       INRD         51       00.00       SD13       J       50         52       00.00       D010       INRE       50         53       00.02       K       11       INRD       INRC         54       00.00       SD13       J       53       55       00.00       INRE         55       00.00       SD13       J       56       57       00.00       K       13       K         57       00.00       K       13       K       14       57       56       55       57       57       57       57       57       55       52       K       13       57         50	44	00.00	D=00	TNRE										
No. 00       No. 0       No. 0       No. 0         No. 00       Del0       INRE         No. 00       SD13       J       A         No. 00       Del0       INRE         No. 00       Del0       INRE         No. 00       Del0       INRE         No. 00       SD13       J         SO 00.00       Del0       INRE         SO 00.00       SD13       J         SO 00.00       K       S         SO 00.00       K       S	47	00.97	K 10	TNRD	TNRC									
47       00.00       D=00       TNRB         44       00.92       K 07       TNRD       TNRC         46       00.00       D=00       TNRB       40         40       00.92       K 02       TNRD       TNRC         47       00.00       D=00       TNRB       40         40       00.92       K 02       TNRD       TNRC         44       00.00       D=00       TNRB       50         50       00.92       K 11       TNRD       TNRC         51       00.00       D=00       TNRB       50         52       00.00       D=00       TNRE       50         53       00.92       K 01       TNRD       TNRC         54       00.00       SD13       J 53       55         50       00.00       TNRB       TNRC       50         56       0.52       K 13       K 14       50         55       00.00       TNRE       50       50       50         56       0.52       K 13       K 14       50       50       50       50         50       0.64.44       K 12       52       50       50	48	00,00	SD13	.1 47										
A       00.92       K       07       TNRD       INRC         4B       00.00       SD13       J       4A         4D       00.92       K       07       INRC         4E       00.00       D=00       INRE         4D       00.92       K       10       INRC         5D       00.00       D=00       INRE         51       00.00       D=00       INRE         52       00.00       D=00       INRE         53       00.92       K       16       INRC         54       00.00       D=10       INRE       S         54       00.00       D=10       INRE       S         56       00.92       K       11       INRC         57       00.00       SD13       J       S         56       00.92       K       18       INRC         57       00.00       SD13       J       S         56       05.52       K       13       K       14         57       05.52       K       28       K       29         60       04.00       K       18       K       16	49	00.00	D=00	INRE										
HB       00.00       SD13       J       JAA         4C       00.00       D=00       INRE         4C       00.00       SD13       J       AD         4F       00.00       SD13       J       AD         4F       00.00       SD13       J       AD         4F       00.00       SD13       J       AD         5D       00.92       K       11       INRE         52       00.00       D=00       INRE       SD         53       00.92       K       04       INRE         54       00.00       SD13       J       SD         55       00.00       D=00       INRE       SD         56       00.92       K       04       INRE         57       00.00       K       13       K       14         57       00.00       K       13       K       14         50       01.94       J <sp< td="">       SD       SD</sp<>	44	00.92	К 07	INRD	INRC									
4C       00.00       D=00       INRE         4D       00.92       K 02       INRD         4E       00.00       SD13 J 40         4F       00.00       SD13 J 50         52       00.00       D=00         53       00.92       K 01       INRC         54       00.00       SD13 J 53       55         55       00.00       D=00       INRE         54       00.00       SD13 J 53       55         55       00.00       SD13 J 54       56         57       00.00       SD13 J 54       58         58       00.00       K 14 $$	48	00.00	SD13	J 4A										
40       00.92 K 02 INRC         4E       00.00 SD13 J 4D         4F       00.00 D=00 INRE         50       00.92 K 11 INRD INRC         51       00.00 D=00 INRE         53       00.92 K 06 INRD INRC         54       00.00 D=00 INRE         55       00.00 D=00 INRE         56       00.92 K 01 INRD INRC         57       00.00 K 13 K 14         58       00.00 INRE STOP         59       00.00 K 13 K 14         50       01.92 K 13 K 20         50       01.92 K 13 K 20         50       01.92 K 13 K 20         50       01.92 K 18 K 14         50       01.92 K 18 K 14         51       01.84 J 59         52       01.92 K 18 K 12         55       05.52 K 23 K 29         60       04.44 K 12 K 22         51       01.84 K 25 K 22         61       01.84 K 15         64       07.36 K 18 K 19         67       02.76 J 63         68       00.00 K 18 K 19         69       04.60 K 21 K 24         64       07.36 K 25 K 27         69       04.60 K 21 K 22         60       02.76 K 23 K 27	4C	00.00	D=00	INRE										
4E       00.00       SD13       J       4D         4F       00.00       D=00       INRE         50       00.972       K       11       INRD         51       00.00       SD13       J       50         52       00.00       SD13       J       53         53       00.92       K       04       INRD         54       00.00       SD13       J       53         55       00.00       SD13       J       53         56       00.92       K       11       INRD         57       00.00       SD13       J       56         58       00.00       INRE       STOP       pitch pattern source sets of diads         56       01.12       K       14       STO       Stop         50       01.92       K       14       Stop       Stop         51       01.184       J       SP       Stop       Stop       Stop         51       01.184       K       ST       Stop       Stop       Stop       Stop         52       01.184       K       Stop       Stop       Stop       Stop       Stop	4D	00.92	K 02	INRD	INRC									
4F       00.00       D=00       INRE         50       00.00       SD13       50         52       00.00       D=00       INRE         53       00.92       K       06       INRD         54       00.00       SD13       53         55       00.00       D=00       INRE         54       00.92       K       01       INRE         55       00.00       SD13       53         56       00.92       K       01       INRE         57       00.00       SD13       54         58       00.00       INRE       STOF         57       00.00       SD13       54         58       05.52       K       13       K       20         58       05.52       K       13       K       20         50       01.84       J       57       55       57       56         50       01.84       K       22       56       57       57         61       01.84       K       25       K       22       57         61       01.84       K       15       56       60 <t< td=""><td>4E</td><td>00.00</td><td>SD13</td><td>J 4D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	4E	00.00	SD13	J 4D										
50 00.92 K 11 INRC INRC 51 00.00 SD13 J 50 52 00.00 D=00 INRE 53 00.92 K 06 INRD INRC 54 00.00 D=00 INRE 55 00.00 D=00 INRE 56 00.92 K 01 INRD INRC 57 00.00 SD13 J 56 58 00.00 K 13 K 14 $\longrightarrow$ pitch pattern source sets of diads 54 06.44 K 16 K 20 55 05.52 K 13 K 20 55 05.52 K 23 K 22 56 05.52 K 23 K 22 56 00.00 K 18 K 14 $\longrightarrow$ pitch pattern source sets of diads 56 00.00 K 21 K 22 57 00.00 K 21 K 22 50 00.00 K 18 K 15 64 07.36 K 16 K 19 65 04.60 K 13 K 15 64 07.36 K 16 K 19 65 04.60 K 13 K 15 66 09.20 K 18 K 19 67 02.76 J 63 68 00.00 K 25 K 27 69 04.60 K 21 K 24 69 02.76 J 63 69 00.00 K 18 K 25 61 01.84 K 25 K 27 60 00.00 K 21 K 24 62 00.00 K 25 K 27 63 00.00 K 25 K 27 64 07.36 K 16 K 19 65 04.60 K 13 K 15 66 07.20 J 68 60 00.00 K 18 K 20 61 01.84 K 25 K 27 62 05.52 K 16 K 20 65 04.40 K 31 K 17 71 03.68 J 60 72 00.00 K 21 K 22 73 06.44 K 22 K 26 74 05.52 K 25 K 26 75 03.68 K 23 K 22 73 06.44 K 22 K 26 74 05.52 K 25 K 26 75 03.68 K 23 K 22 75 03.68 K	4F	00.00	D = 0.0	INRE										
51 00.00 SD13 J 50 52 00.00 D=00 INRE 53 00.92 K 06 INRD INRC 54 00.00 SD13 J 53 55 00.00 D=00 INRE 56 00.92 K 01 INRD INRC 57 00.00 SD13 J 56 58 00.00 INRE STOP 59 00.00 K 13 K 14 $\longrightarrow$ pitch pattern source sets of diads 54 06.44 K 16 K 20 58 05.52 K 13 K 20 50 01.84 J 59 55 00.00 K 21 K 22 55 05.52 K 23 K 29 60 06.44 K 21 K 22 55 05.52 K 23 K 29 61 01.84 K 25 K 22 62 10.12 J 5E 63 00.00 K 18 K 15 64 07.36 K 16 K 19 65 04.60 K 13 K 15 66 09.20 K 18 K 19 67 02.76 J 63 68 00.00 K 21 K 24 68 00.00 K 22 K 27 69 04.60 K 21 K 24 64 07.36 K 16 K 19 65 04.60 K 13 K 15 66 09.20 J 88 60 00.00 K 25 K 27 67 02.76 J 63 68 00.00 K 21 K 24 68 00.00 K 22 K 27 69 04.60 K 21 K 20 65 05.52 K 16 K 17 70 08.28 K 16 K 17 71 03.68 J 6D 72 00.00 K 21 K 22 73 06.44 K 22 K 26 74 05.52 K 25 K 26 75 03.68 K 23 K 22	50	00.92	K 11	INRD	INRC									
52 00.00 D=00 INRE 53 00.92 K 04 INRD INRC 54 00.00 SD13 J 53 55 00.00 D=00 INRE 56 00.92 K 01 INRD INRC 57 00.00 SD13 J 54 58 00.00 INRE STOP 59 00.00 K 13 K 14 	51	00.00	SD13	J 50										
53       00.92 K 06 INRC INRC         54       00.00 D=00 INRE         56       00.92 K 01 INRD INRC         57       00.00 SD13 J 56         58       00.00 INRE STOF         57       00.00 K 13 K 14         54       06.44 K 16 K 20         55       01.12 K 18 K 14         50       01.84 J 59         51       01.00 K 21 K 22         56       05.52 K 23 K 29         60       04.44 K 21 K 22         57       01.00 K 41 S 79         52       01.00 K 21 K 22         56       05.52 K 23 K 29         61       01.84 K 25 K 22         62       01.00 K 18 K 15         63       00.00 K 18 K 15         64       07.36 K 16 K 19         65       04.60 K 13 K 15         64       07.36 K 25 K 27         69       04.60 K 21 K 24         68       00.00 K 25 K 27         69       04.60 K 13 K 17         70       04.68 K 20         60       07.02 J 48         61       07.02 J 48         62       05.52 K 16 K 20         64       07.36 K 25 K 24         65       04.60 K 13 K 17	52	00.00	D = 0.0	INRE										
54 00.00 D503 J 53 55 00.00 D=00 INRE 57 00.00 SD13 J 56 58 00.00 INRE STOF 59 00.00 K 13 K 14 54 06.44 K 16 K 20 55 05.52 K 13 K 20 55 05.52 K 13 K 20 55 01.02 K 18 K 14 55 01.00 K 21 K 22 55 05.52 K 23 K 29 60 06.44 K 21 K 29 61 01.84 K 25 K 22 62 10.12 J 55 63 00.00 K 18 K 15 64 07.36 K 16 K 19 65 04.60 K 13 K 15 66 09.20 K 18 K 19 67 02.76 J 63 68 00.00 K 25 K 27 69 04.60 K 21 K 24 66 09.20 K 18 K 19 67 02.76 J 63 68 00.00 K 18 K 27 69 04.60 K 21 K 24 60 00.00 K 18 K 20 61 01.84 K 25 K 27 62 00.00 K 18 K 19 63 00.00 K 18 K 19 64 07.36 K 25 K 27 65 04.60 K 21 K 24 66 09.20 K 18 K 19 67 02.76 J 63 68 00.00 K 18 K 20 69 04.60 K 21 K 24 60 00.00 K 18 K 20 61 00.00 K 18 K 20 62 05.52 K 16 K 20 64 07.36 K 25 K 24 65 04.44 K 13 K 17 70 08.28 K 16 K 17 71 03.68 J 6D 72 00.00 K 21 K 22 73 06.44 K 22 K 26 74 05.52 K 25 K 26 74 05.52 K 25 K 26 74 05.52 K 25 K 26 75 03.68 K 23 K 22	53	00.92	K 06	INRD	INRC									
55 00.00 D=00 INRE 56 00.92 K 01 INRD INRC 57 00.00 SD13 J 56 58 00.00 INRE STOP 59 00.00 K 13 K 14 50 06.44 K 16 K 20 50 10.12 K 18 K 14 50 01.84 J 59 50 00.00 K 21 K 22 50 00.00 K 21 K 22 50 06.44 K 21 K 29 61 01.84 K 25 K 22 62 10.12 J 5E 63 00.00 K 18 K 15 64 07.36 K 16 K 19 65 04.60 K 13 K 15 66 09.20 K 18 K 15 67 02.76 J 63 68 00.00 K 25 K 27 69 04.60 K 21 K 24 66 07.36 K 25 K 27 60 00.00 K 18 K 19 67 02.76 J 63 68 00.00 K 18 K 19 67 02.76 J 63 68 00.00 K 18 K 19 67 02.76 K 23 K 27 60 09.20 J 68 60 00.00 K 18 K 20 61 01.84 K 25 K 24 62 00.00 K 25 K 27 63 00.00 K 25 K 27 64 07.36 K 25 K 24 65 04.60 K 21 K 24 66 07.36 K 25 K 24 67 02.76 K 23 K 27 60 09.20 J 68 67 06.44 K 13 K 17 70 08.28 K 16 K 17 71 03.28 J 60 72 00.00 K 21 K 22 73 06.44 K 22 K 26 74 05.52 K 25 K 26 75 03.68 K 23 K 27 60 09.20 K 18 K 17 70 08.28 K 25 K 26 75 03.68 K 23 K 27 60 09.20 K 18 K 17 70 09.28 K 25 K 26 75 03.68 K 23 K 27 75 03.68 K 23 K 27 75 03.68 K 23 K 27 75 03.68 K 23 K 23 K 27 75 03.68 K 23 K 27 75 03.68 K 23 K 25 75 03.68 K 23 K	54	00.00	SD13	J 53										
56       00.92 K 011 INRD INRC         57       00.00 SD13 J 56         58       00.00 INRE STOP         59       00.00 K 13 K 14         54       06.44 K 16 K 20         55       05.52 K 13 K 20         56       01.12 K 18 K 14         50       01.00 K 21 K 22         55       05.52 K 23 K 27         60       06.44 K 21 K 22         56       01.84 J 59         55       05.52 K 23 K 27         60       06.44 K 21 K 22         61       01.84 K 25 K 22         62       10.12 J 5E         63       00.00 K 18 K 15         64       07.36 K 16 K 17         65       04.60 K 13 K 15         64       07.36 K 25 K 27         69       04.60 K 21 K 27         60       00.00 K 25 K 27         60       00.00 K 25 K 27         61       01.00 K 18 K 20         62       05.52 K 16 K 20         64       07.36 K 25 K 24         65       04.40 K 13 K 17         70       08.28 K 16 K 17         71       03.68 J 60         72       00.00 K 21 K 22         73       06.44 K 22 K 26	55	00.00	D = 0.0	INRB										
57       00.00 SD13 J 56         58       00.00 INRE STOP         59       00.00 K 13 K 14         54       06.44 K 16 K 20         55       05.52 K 13 K 20         56       01.12 K 18 K 14         50       01.84 J 59         55       01.84 J 59         56       01.84 J 59         57       05.52 K 23 K 29         60       06.44 K 21 K 22         57       00.00 K 18 K 15         60       06.44 K 13 K 15         61       01.84 K 25 K 22         62       10.12 J 5E         63       00.00 K 18 K 15         64       07.36 K 16 K 19         65       04.60 K 21 K 24         64       07.36 K 25 K 27         69       04.60 K 21 K 24         64       07.36 K 25 K 24         65       02.76 K 23 K 27         60       00.00 K 18 K 20         66       05.52 K 16 K 20         67       03.68 J 60         72       00.00 K 21 K 22         73       06.44 K 22 K 26         74       05.52 K 25 K 26         75       03.68 K 23 K 22	56	00,92	K 01	INRD	INRC									
58       00.00 INNEE STOF         59       00.00 K 13 K 14         50       06.44 K 16 K 20         58       05.52 K 13 K 20         50       10.12 K 18 K 14         50       01.84 J 59         56       00.00 K 21 K 22         57       05.52 K 23 K 29         60       06.44 K 21 K 29         61       01.84 K 25 K 22         62       10.12 J 5E         63       00.00 K 18 K 15         64       07.36 K 16 K 19         65       04.60 K 13 K 15         66       09.20 K 18 K 19         67       02.76 J 63         68       00.00 K 25 K 27         69       04.60 K 21 K 24         64       07.36 K 25 K 27         69       04.60 K 21 K 24         64       07.36 K 25 K 27         69       04.60 K 21 K 24         64       07.36 K 25 K 27         67       04.40 K 13 K 17         70       08.28 K 16 K 17         71       03.68 J 6D         72       00.00 K 21 K 22         73       06.44 K 22 K 26         74       05.52 K 25 K 26         75       03.68 K 23 K 22 </td <td>57</td> <td>00.00</td> <td>SD13</td> <td>J 56</td> <td></td>	57	00.00	SD13	J 56										
59       00.00 k       k       13 k       14       precin parterin source sets of data         54       06.44 k       16 k       20         55       05.52 k       13 k       20         55       01.42 k       18 k       14         50       01.484 J       59       55         55       05.52 k       23 k       29         60       06.44 k       21 k       29         61       01.84 k       25 k       22         62       10.12 J       55         63       00.00 k       18 k       15         64       07.36 k       16 k       19         65       04.60 k       13 k       15         64       07.36 k       25 k       27         67       02.76 J       63         68       00.00 k       25 k       27         66       07.36 k       25 k       24         68       07.36 k       25 k       27         60       09.20 J       68       60         60       00.00 k       18 k       20         64       05.52 k       16 k       20         65       06.44 k	58	00.00	INRE	STOP		······	nitch	nat	torn	COUT	<b>.</b> .	ote	of	diads
5A       08.444       K       16       K       20         5E       05.52       K       13       K       20         5D       01.84       J       59         5E       00.00       K       21       K       22         5F       05.52       K       23       K       29         60       06.44       K       21       K       29         61       01.84       K       25       K       22         62       10.12       J       5E           63       00.00       K       18       K       15         64       07.36       K       16       K       17         65       04.60       K       18       K       19         67       02.76       J       63           68       00.00       K       25       K       24         64       07.36       K       25       K       24         64       07.46       K       21       K       24         64       07.36       K       18       K       16         60	59	00,00	K 13	K 14			preen	pat	CELII	30410			01	Gadad
368       03.522       K       13       K       20         50       01.84       J       59         55       05.52       K       23       K       29         60       06.44       K       21       K       29         61       01.84       K       25       K       22         62       10.12       J       5E       63       64       7.36       K       14       70         63       00.00       K       18       K       15       64       67       64       13       K       15         64       07.36       K       14       K       19       65       64       67.02       K       18       K       19         65       04.60       K       13       K       15       66       69.20       K       18       K       19         67       02.76       J       63	DA EB	06+44	K 10	K 20										
30: 10:12       N 10       N 17         5D       01.84       J       59         5E       00.00       K       21       K       22         5F       05.52       K       23       K       29         61       01.84       K       25       K       22         62       10.12       J       5E       6         63       00.00       K       18       K       15         64       07.36       K       14       K       19         65       04.60       K       13       K       15         64       07.36       K       18       K       19         67       02.76       J       63       6       69.20       K       18       K       19         67       02.76       J       63       6       60       62       K       25       K       24         64       07.36       K       25       K       24       6       6       60.00.00       K       18       K       20         65       04.44       K       13       K       17       71       03.68       J	05	10 10	K 13	14 Z.U										
30       01.84       0.37         5E       00.00       K       21       K       22         5F       05.52       K       23       K       29         60       06.44       K       21       K       29         61       01.84       K       25       K       22         62       10.12       J       5E       63       00.00       K       18       K       17         64       07.36       K       16       K       19       65       64.60       K       13       K       15         65       04.60       K       13       K       15       66       69.20       K       18       K       19         67       02.76       J       63       68       60       60.00       K       25       K       27         68       00.00       K       25       K       24       64       67.36       K       23       K       27         60       00.00       K       18       K       20       66       65.52       K       16       K       17         70       08.28       K <td< td=""><td>00 En</td><td></td><td>I EO</td><td>r, 1,1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	00 En		I EO	r, 1,1										
3E       000000000000000000000000000000000000	50	0.1.+0.1.0	U D7	10 22										
31       003.44       K       21       K       29         61       01.84       K       25       K       22         62       10.12       J       5E         63       00.00       K       18       K       15         64       07.36       K       16       K       19         65       04.60       K       13       K       15         64       07.36       K       18       K       19         65       04.60       K       13       K       15         66       09.20       K       18       K       19         67       02.76       J       63       68       00.00       K       25       K       27         68       02.76       K       23       K       27       66       05.52       K       16       K       17         70       08.28       K       16       K       17       71       03.68       J       6D         72       00.00       K       21       K       22       73       06.44       K       13       K       17         73       0	0E. E.E.	00+00	1 23	10 20										
61       01.814       K       22         62       10.12       J       5E         63       00.00       K       18       K       15         64       07.36       K       16       K       19         65       04.60       K       13       K       15         66       09.20       K       18       K       19         67       02.76       J       63       68       00.00       K       25       K       27         69       04.60       K       21       K       24       64       07.36       K       25       K       27         69       04.60       K       21       K       24       64       67       36       K       25       K       24         64       07.36       K       25       K       24       64       67       36       67       04.60       K       21       K       27         66       02.76       K       23       K       20       66       67       64       K       13       K       17         70       08.28       K       16       K	A 0	04.44	K 21	K 29										
62       10.12       J       5E         63       00.00       K       18       K       15         64       07.36       K       16       K       19         65       04.60       K       13       K       15         66       09.20       K       18       K       19         67       02.76       J       63         68       00.00       K       25       K       27         69       04.60       K       21       K       24         64       07.36       K       25       K       24         66       02.76       K       23       K       27         67       04.00       K       18       K       20         68       05.52       K       16       K       17         71       03.68       J       6D       72       00.00       K       21       K	A1	01.84	K 25	K 22										
63       00.00 K       18 K       15         64       07.36 K       16 K       19         65       04.60 K       13 K       15         66       09.20 K       18 K       19         67       02.76 J       63         68       00.00 K       25 K       27         69       04.60 K       21 K       24         64       07.36 K       25 K       27         69       04.60 K       21 K       24         68       02.76 K       23 K       27         60       07.36 K       25 K       24         68       02.76 K       23 K       27         60       09.20 J       68       68         60       00.00 K       18 K       20         66       05.52 K       16 K       20         67       04.44 K       13 K       17         70       08.28 K       16 K       17         71       03.68 J       60         72       00.00 K       21 K       22         73       06.44 K       22 K       26         74       05.52 K       25 K       26 <td< td=""><td>67</td><td>10.12</td><td>J 5E</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	67	10.12	J 5E											
64       07.36       K       16       K       19         65       04.60       K       13       K       15         66       09.20       K       18       K       19         67       02.76       J       63         68       00.00       K       25       K       27         69       04.60       K       21       K       24         64       07.36       K       25       K       24         64       07.36       K       25       K       24         64       07.36       K       25       K       24         65       02.76       K       23       K       27         66       02.76       K       23       K       27         66       05.52       K       16       K       17         70       08.28       K       16       K       17         71       03.68       J       6D         72       00.00       K       21       K       22         73       06.444       K       22       K       26         74       05.52       <	63	00.00	К 18	K 15										
65       04.60       K       13       K       15         66       09.20       K       18       K       19         67       02.76       J       63         68       00.00       K       25       K       27         69       04.60       K       21       K       24         6A       07.36       K       25       K       24         6B       02.76       K       23       K       27         6C       09.20       J       68       6       6       6         6D       00.00       K       18       K       20       6       6       6       5.52       K       16       K       20         6F       06.444       K       13       K       17       70       08.28       K       16       K       17         71       03.68       J       6D       72       00.00       K       21       K       22         73       06.44       K       22       K       26         74       05.52       K       25       K       26         75       03.68       K	64	07.36	K 16	K 19										
66       09.20       K       18       K       19         67       02.76       J       63         68       00.00       K       25       K       27         69       04.60       K       21       K       24         6A       07.36       K       25       K       24         6B       02.76       K       23       K       27         6C       09.20       J       68	65	04.60	К 13	K 15										
67       02.76       J       63         68       00.00       K       25       K       27         69       04.60       K       21       K       24         64       07.36       K       25       K       24         68       02.76       K       23       K       27         60       09.20       J       68	66	09.20	К 18	K 19										
68       00.00 K       25 K       27         69       04.60 K       21 K       24         6A       07.36 K       25 K       24         6B       02.76 K       23 K       27         6C       09.20 J       68         6D       00.00 K       18 K       20         6E       05.52 K       16 K       20         6F       06.44 K       13 K       17         70       08.28 K       16 K       17         71       03.68 J       6D         72       00.00 K       21 K       22         73       06.44 K       22 K       26         74       05.52 K       25 K       26         75       03.68 K       23 K       22	67	02.76	J 63											
69       04.60       K       21       K       24         6A       07.36       K       25       K       24         6B       02.76       K       23       K       27         6C       09.20       J       68	68	00.00	K 25	K 27										
6A       07.36       K       25       K       24         6B       02.76       K       23       K       27         6C       09.20       J       68         6D       00.00       K       18       K       20         6E       05.52       K       16       K       20         6F       06.44       K       13       K       17         70       08.28       K       16       K       17         71       03.68       J       6D	69	04.60	К 21	K 24										
6B       02.76       K       23       K       27         6C       09.20       J       68         6D       00.00       K       18       K       20         6E       05.52       K       16       K       20         6F       06.44       K       13       K       17         70       08.28       K       16       K       17         71       03.68       J       6D       72       00.00       K       21       K       22         73       06.44       K       22       K       26         74       05.52       K       25       K       26         75       03.68       K       23       K       22	6A	07.36	K 25	K 24										
6C       09.20       J       68         6D       00.00       K       18       K       20         6E       05.52       K       16       K       20         6F       06.44       K       13       K       17         70       08.28       K       16       K       17         71       03.68       J       6D         72       00.00       K       21       K       22         73       06.44       K       22       K       26         74       05.52       K       25       K       26         75       03.68       K       23       K       22	6B	02.76	К 23	K 27										
6D 00.00 K 18 K 20 6E 05.52 K 16 K 20 6F 06.44 K 13 K 17 70 08.28 K 16 K 17 71 03.68 J 6D 72 00.00 K 21 K 22 73 06.44 K 22 K 26 74 05.52 K 25 K 26 75 03.68 K 23 K 22	60	09.20	86 U	11										
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OF       00.111       K       17         70       08.28       K       16       K       17         71       03.68       J       6D       72       00.00       K       21       K       22         73       06.44       K       22       K       26       74       05.52       K       25       K       26         75       03.68       K       23       K       22       K       26	6E	00+52	K 16	K 20										
70 00.20 K 10 K 17 71 03.68 J 6D 72 00.00 K 21 K 22 73 06.44 K 22 K 26 74 05.52 K 25 K 26 75 03.68 K 23 K 22	or 70	00+44	K 13	r、 1.7										
72 00.00 K 21 K 22 73 06.44 K 22 K 26 74 05.52 K 25 K 26 75 03.68 K 23 K 22	/U 	00+20	L TO	rs 11/										
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77 00.00 78 06.44 79 05.52 7A 07.36 7B 04.60 7C 08.28 7D 03.68 7D 03.68 7E 09.20 7F 02.76 80 10.12 81 01.84 82 00.00 83 05.52 84 06.44 85 04.60 86 07.36 87 03.68 88 08.28 89 02.76 84 09.20 86 01.84 86 01.84 86 01.84	K       13       K       K       13       K       K       14       K       14       K       K       14       K <th>12 20 14 19 15 17 15 17 24 27 24 31 22 31 24 29 24 22 24 22 24 22 24</th> <th></th> <th></th> <th></th>	12 20 14 19 15 17 15 17 24 27 24 31 22 31 24 29 24 22 24 22 24 22 24			
80 10+12 80 00+00	U 82 K 43 K	82 K	83	<u></u>	master control sequencer: this sequence contains the complete composition form
8F 00.92	K 37 II	NRD D06 J	1 8F		description and controls the operation of all other sequencers
91 00.00 92 00.00	K 51 K K 83	99			
93 00.00	K 82 K TNRF K	86 K	90 84		
95 00.00	SA13 J	96 L	9B		
96 00.00	SC13 J C=00	95 K	: 33		
98 00.00	SA13 J	99 .	9B		
99 00.00 94 00.00	SC13 J	98 K 95	3 42		
9B 00.00	SF12 J	90 0	DE		
90 00.00	K 85 K	87 K	91		
9E 00+00	SB11 J	9F u	I A4		
9F 00.00	SC11 J	9E K	36		
A0 00.00	C=00	<u>۸</u> 7			
A2 00.00	SC11 J	A1 K	39		
A3 00.00	C=00 J	9E			
A4 00.00	SF11 J	Α5 ι α4	93		
A6 00+00	SA13 J	A7 L	J AC		
A7 00.00	SC13 J	A6 K	34		
A8 00.00	C=00 S613.1	۵۵.	I Ar		
AA 00.00	SC13 J	A9 K	41		
AB 00.00	C=00 J	A6			
AC 00.00	K 85 K	- 88 k	) 90 (92		
AE 00.00	INRF K	61 k	73		
AF 00,00	SB11 J				
B1 00.00	C=00	P1 [7	. J/		
B2 00.00	SB11 J	B3 .	I BB		
B3 00.00	SC11 J	82 K	38		
B5 00.00	SB11 J	B6 .	) BB		
E6 00.00	SC11 J	85 K	35		
87 00,00	C=00				

B8 00.00 SB11 J B9 J BB B9 00.00 SC11 J B8 K 40 EA 00.00 C=00 J AF J A5 BB 00.00 SF09 J BC BC 00.00 K 84 K 89 K 93 BD 00.00 INRF K 63 K 75 BE 00.00 SA13 J BF J C1 BF 00.00 SC13 J BE K 32 C0 00.00 C=00 J BE C1 00.00 SF08 J C2 J AD C2 00.00 INRF K 85 K 94 C3 00.00 SC11 J C3 K 37 C4 00.00 C=00 K 30 K A0 C5 00.00 SC11 J C5 K 38 C6 00.00 C=00 C7 00.00 SC11 J C7 K 32 C8 00.00 C=00 C9 00.00 SC11 J C9 K 36 CA 00.00 C=00 CB 00.00 SC11 J CB K 39 CC 00.00 C=00 CD 00.00 SC11 J CD K 35 CE 00.00 C=00 CF 00.00 SC11 J CF K 32 D0 00.00 C=00 D1 00.00 SC11 J D1 K 40 D2 00.00 C=00 D3 00.00 SC11 J D3 K 34 D4 00.00 C=00 D5 00.00 SC11 J D5 K 41 D6 00.00 C=00 D7 00.00 SC11 J D7 K 32 D8 00.00 C=00 D9 00.00 SC11 J D9 K 33 DA 00.00 C=00 DB 00.00 SC11 J DB K 42 DC 00.00 C=00 F=07 DD 00.00 K 28 K A1 J BC DE 00.00 K 49 K 99 DF 00.00 K 86 K 90 K 94 E0 00.00 K 82 K 83 E1 00.00 K 30 STOP

end of composition

David Rosenboom

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Dekalb/Toronto

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