

Lydia Ayers

Kaleidoscope (1995) - Soundscape (4:03 minutes) [microtonal; pitch and timbre algorithmically generated using a random walk on two sets of intervals].

Interval Sets for Random Walks											
Part 1		$\frac{256}{243}$	$\frac{16}{15}$			$\frac{10}{9}$	$\frac{9}{8}$	$\frac{8}{7}$	$\frac{7}{6}$	$\frac{6}{5}$	$\frac{5}{4}$
Part 2	$\frac{21}{20}$		$\frac{16}{15}$	$\frac{12}{11}$	$\frac{11}{10}$	$\frac{10}{9}$	$\frac{9}{8}$	$\frac{8}{7}$	$\frac{7}{6}$		

[In the last section, the scale array forms an *otonaity* microtonal scale (part of an overtone series).]

Harmonic Series Between the 16th and 32nd Partials																	
Frequency Ratio	$\frac{1}{1}$	$\frac{17}{16}$	$\frac{9}{8}$	$\frac{19}{16}$	$\frac{5}{4}$	$\frac{21}{16}$	$\frac{11}{8}$	$\frac{23}{16}$	$\frac{3}{2}$	$\frac{25}{16}$	$\frac{13}{8}$	$\frac{27}{16}$	$\frac{7}{4}$	$\frac{29}{16}$	$\frac{15}{8}$	$\frac{31}{16}$	$\frac{2}{1}$
Partial	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32