CHIASMA

for Gendér Wayang and electronics

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The Gendér Wayang part may be performed by one or
two players, and is written using Titilaras Nding-Ndong
notation, in the order of O E U A I o e u a i, where capital
letters denote the lower five notes of the instrument.

Notes should be played in the order presented in the score;
Pengumbang and Pengisep parts need not (but may) be
synchronous or interlocking. Each note may be muted
before striking the next or allowed to ring out.

A stopwatch should be used to keep track of time; the time
markings on the left side of the page denote approximate
start times for each system, while the markings on the
right side of the page denote approximate ending times.

Timing between notes is free, and player(s) may choose
to repeat each phrase as few or many times as they like
during the time given, but each phrase should be
completed before moving to the next system.

The electronics part for the piece requires the use of the
SuperCollider 3 audio synthesis / algorithmic composition
platform and may be downloaded from the following url:
http://mark.cetilia.org/downloads/chiasma.scd

The oscillators should be tuned to Gendér Wayang prior to
performance; instructions may be found in the .scd file above.

Timbral manipulation may be applied to the electronics part
using additional hardware / software, but both channels are
to remain hard-panned, and should be output via speakers
on opposite sides of the stage.

Pengumbang and Pengisep should be miked separately,
and their signals sent to these speakers, Pengumbang
panned hard left and Pengisep panned hard right.

Gendér Wayang and electronics should be mixed equally,
taking into account the acoustic energy of the instrument,
as well as the electronically generated / reproduced signals.

Mark Cetilia
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1

O' | Pengumbang: *tacet*
| Pengisep: *tacet*
| Oscillator I: O ——————— O
| Oscillator II: i ——————— i | 1'

2

1' | Pengumbang: i o O O i
| Pengisep: O o i i O
| Oscillator I: O ——————→ E
| Oscillator II: i ——————→ a | 4'

3

4' | Pengumbang: a I i E O
| Pengisep: E e O a i
| Oscillator I: E ——————→ U
| Oscillator II: a ——————→ u | 6'

4

6' | Pengumbang: u A a U E
| Pengisep: U u E u a
| Oscillator I: U ——————→ A
| Oscillator II: u ——————→ e | 8'

5

8' | Pengumbang: e U u A U
| Pengisep: A a U e u
| Oscillator I: A ——————→ I
| Oscillator II: e ——————→ o | 11'

6

11' | Pengumbang: o E e I A
| Pengisep: I i A o e
| Oscillator I: I ——————→ o
| Oscillator II: o ——————→ I | 13'

7

13' 16'

Pengumbang	I	O	o	o	I
Pengisep	o	O	I	I	o
Oscillator I	o	⟶			e
Oscillator II	I	⟶			A

8

16' 18'

Pengumbang	A	i	I	e	o
Pengisep	e	E	o	A	I
Oscillator I	e	⟶			u
Oscillator II	A	⟶			U

9

18' 20'

Pengumbang	U	a	A	u	e
Pengisep	a	U	e	U	A
Oscillator I	u	⟶			a
Oscillator II	U	⟶			E

10

20' 23'

Pengumbang	E	u	U	a	u
Pengisep	a	A	u	E	U
Oscillator I	a	⟶			i
Oscillator II	E	⟶			O

11

23' 25'

Pengumbang	O	e	E	i	a
Pengisep	i	I	a	O	E
Oscillator I	i	——			i
Oscillator II	O	——			O

12

25' 26'

Pengumbang	*tacet*
Pengisep	*tacet*
Oscillator I	i —— i
Oscillator II	O —— O