

Definition

BEYOND the

Piano

THE SUPER INSTRUMENT IN 21ST CENTURY

"... super- (comb. form)

1. above, over; beyond:

superstructure

- 2. to a great or extreme degree: **superabundant**
 - 3. extra large of its kind: **supercontinent**
 - 4. of a higher kind (especially in names of classificatory divisions): *superfamily*.
 - Origin from L. Super-, from super "above, beyond".

How to

define a super instrument and its identity in the context of the 21st century piano music?

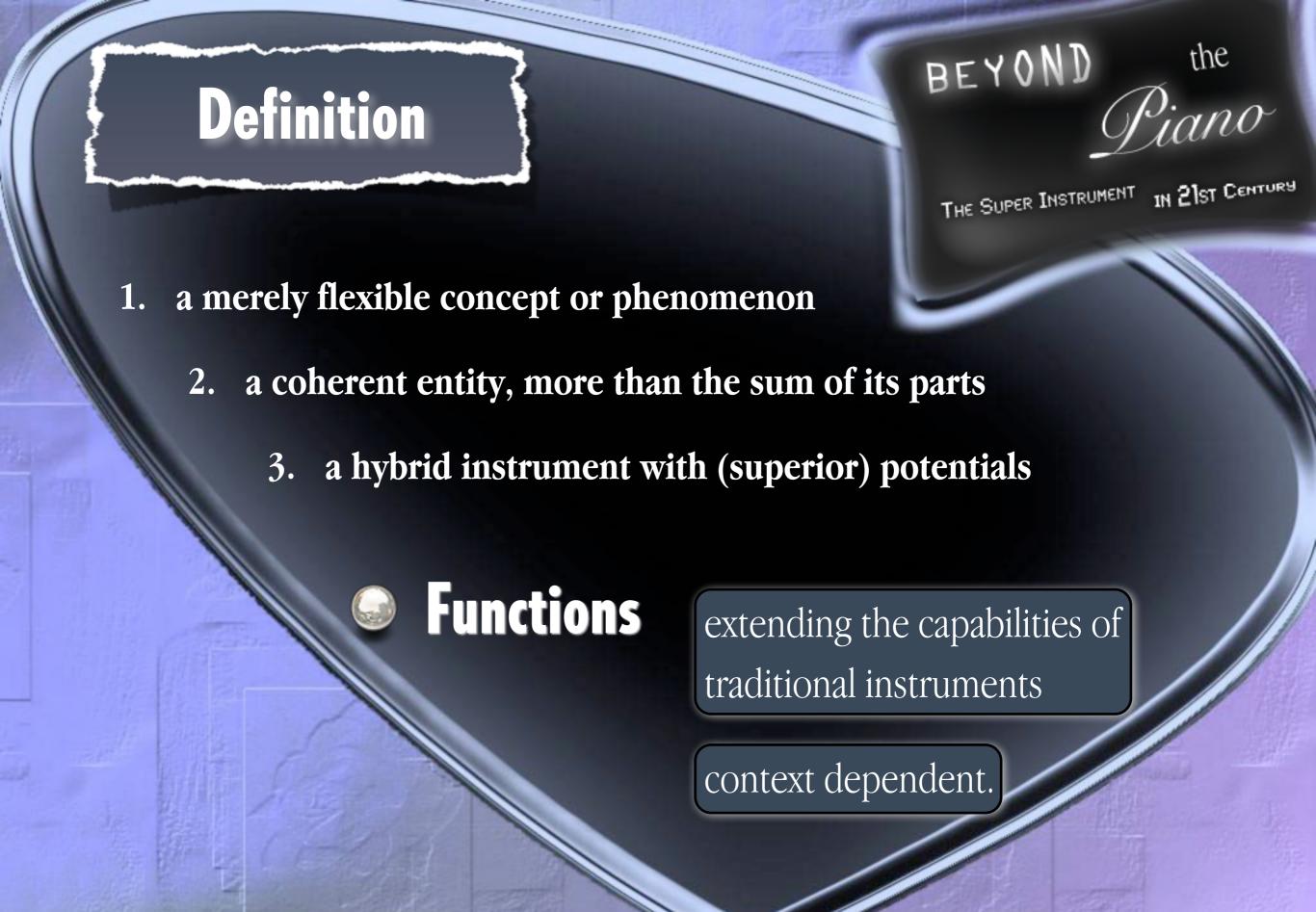


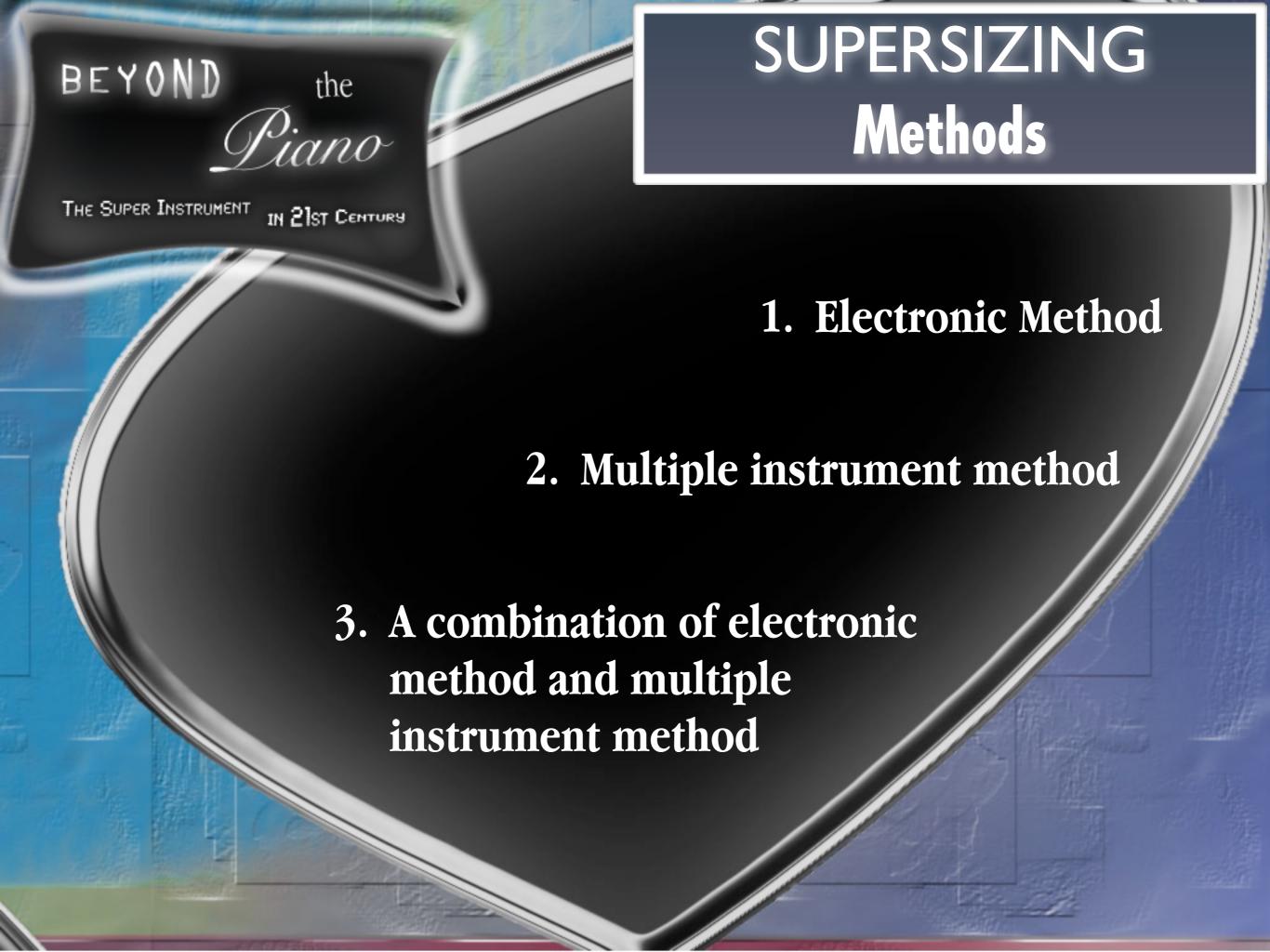
THE SUPER INSTRUMENT IN 21ST CENTURY

What are

the main functions and challenges of it in aesthetical and technical levels?

EXTENDED FUNCTIONS







SUPERSIZING Methods

Karlheinz Essl

Hybrid instruments, ebows, and algorithmic composition techniques.

Tod Machover

Hyper score software ("Jeux Deux").

Kallionpää

"Zusammenbinden. Winden? -Hommage à Schumann".



Karlheinz Essl: Stern (2013). Instrumental setup.



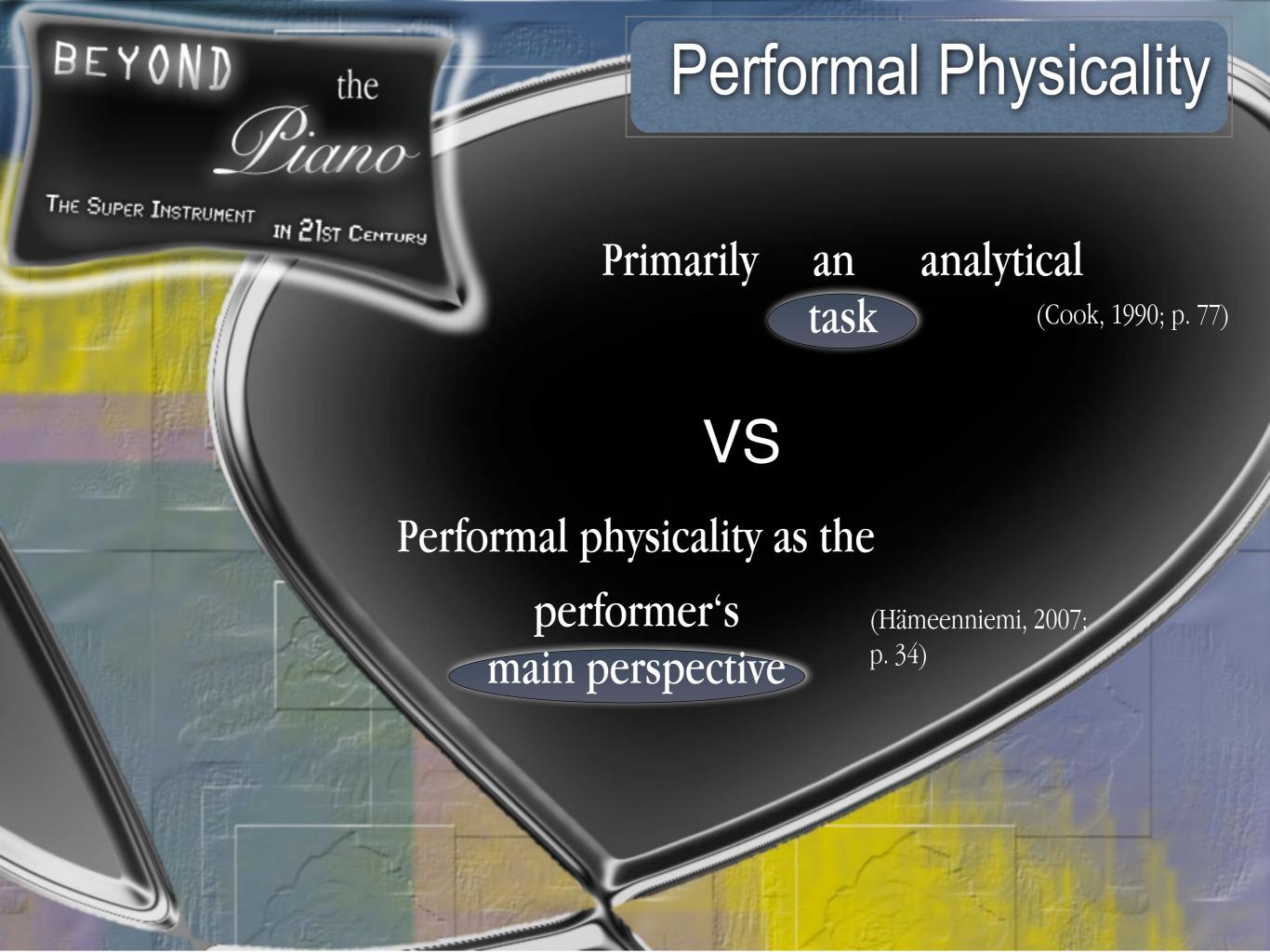
"The identity of instruments is culturally defined, i.e. every instrument is defined by its musical zone, in which it fulfills a specific cutural function."

BEYOND the Piano

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(Mukuma, 2010, p. 84)

The essence of a musical instrument can be infinitely transformed through different instrumental or technological solutions.







Research =

Composing
Practising
Performing

· **&** Karlheinz Essl

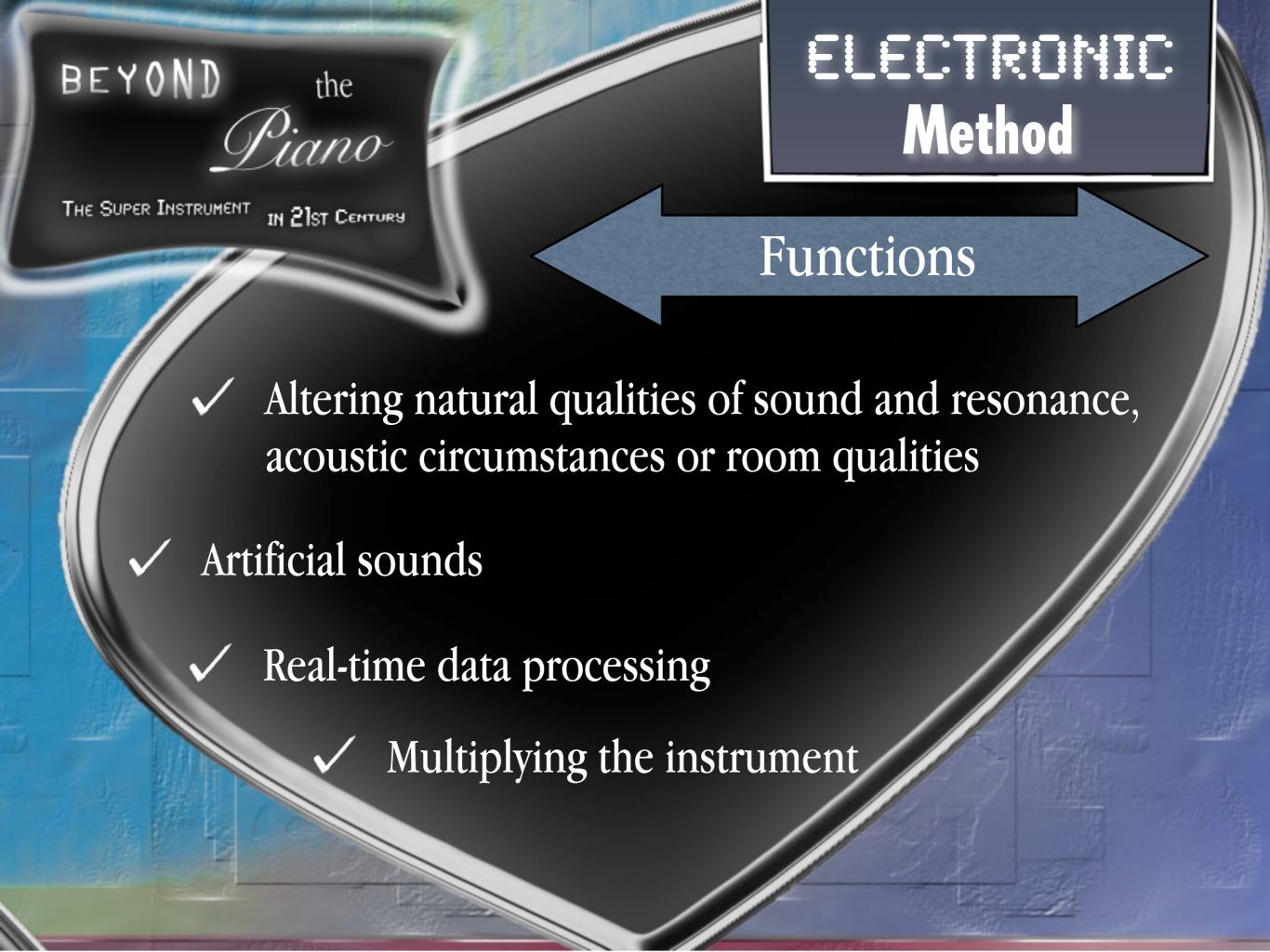
"Sequitur V" (2008), "Sequitur XIII" (2010)

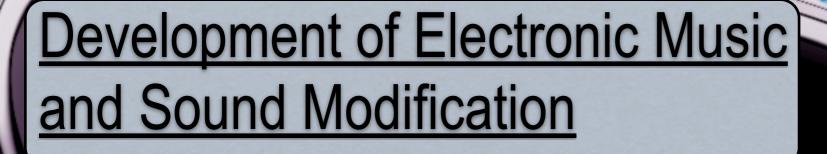
· ***** Maria Kallionpää

"Hommage à Schumann. Zusammenbinden. Winden?" (2009), "Trinity Mania" (2010), "Celestifilia" (2012), "Toccata" (2011)

• Jeff Brown

"Love and Hydrogen" (2013)





BEYOND the

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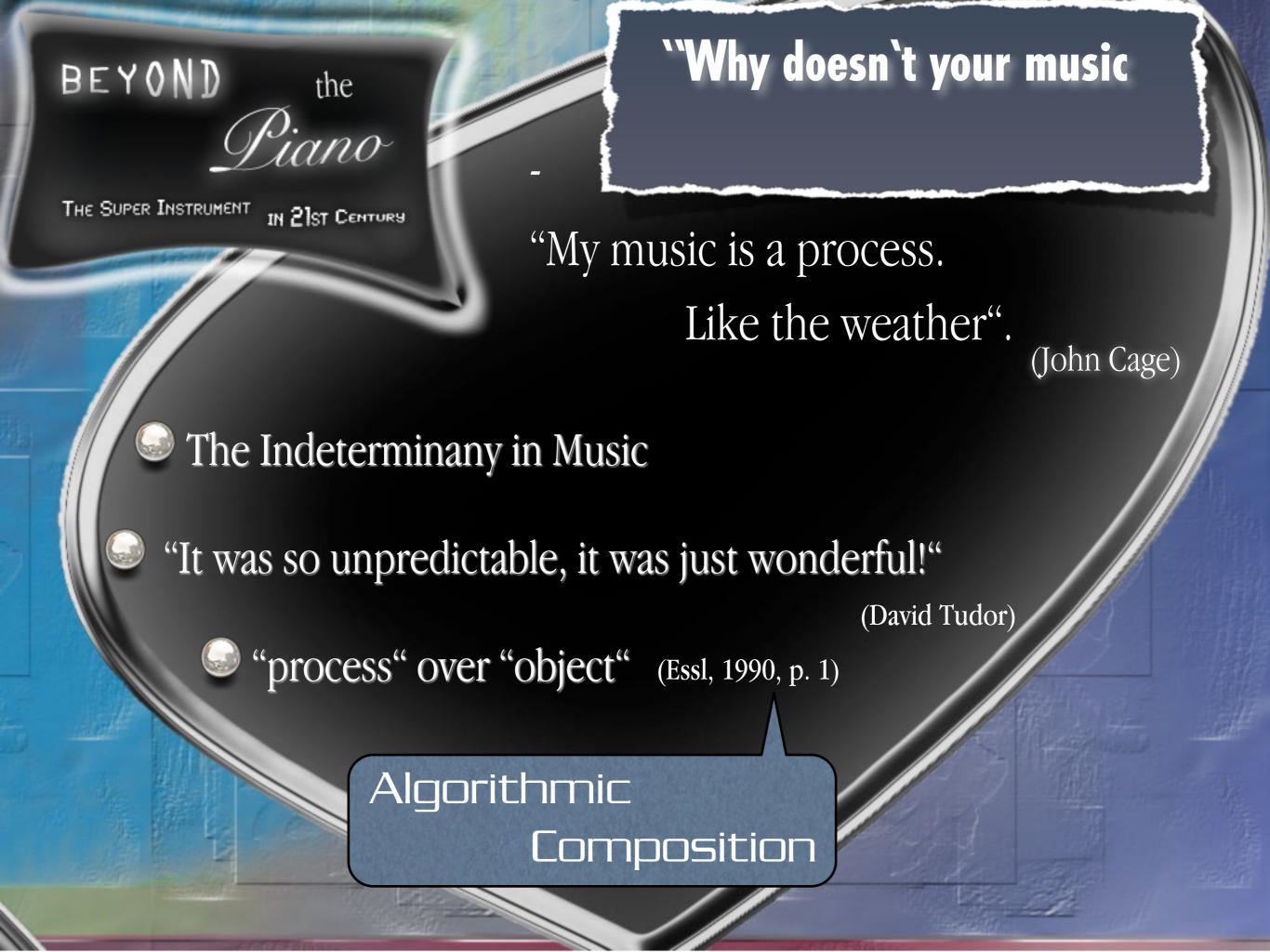
"...sounds were no longer connected to instruments, human expression or physical activity"

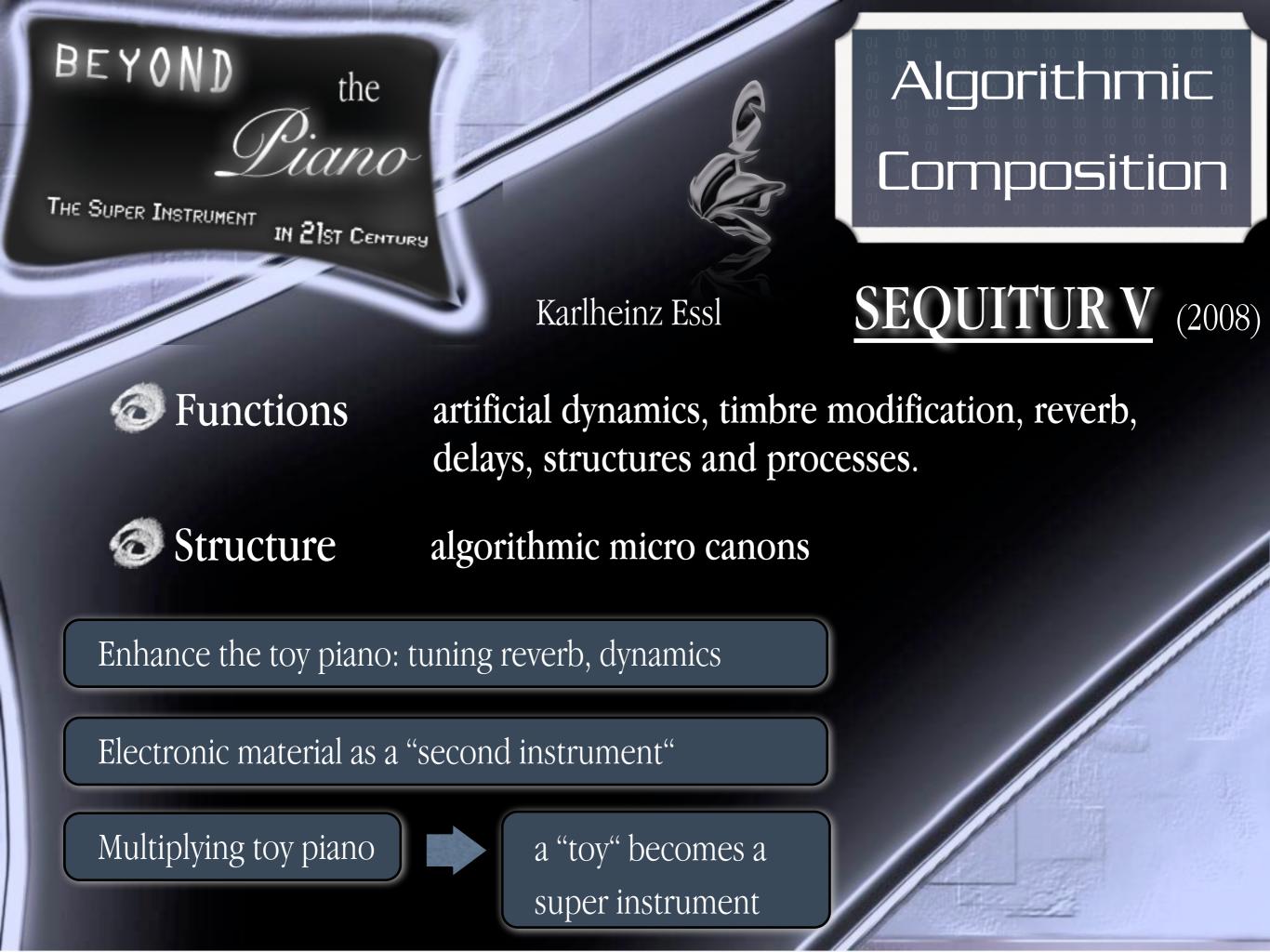
(Chadabe, 1996, p. 42)

"opening up to all sounds"

(Chadabe, 1996, p. 41)

1 J. Chadabe, The History of Electronic Music as a Reflection of Structural Paradigms in the Leonardo Music Journal, Vol. 6. (The MIT Press. 1996.)







Hommage à Schumann

- Algorithmic mosaic of micro canons
 - Piano as an orchestra and labyrinth of sonic processes
 - Sound from the piano or the speakers?

Conclusions

Multiplication of the piano, as if seen in a collection of mirrors.



Multiple Instrument Method

Jeff Brown

Love and Hydrogen

(2013)



A "super pianist" sings microtones, plays toy piano and piano.

Conclusions

A new mixture of sounds that is more than the sum of its parts.

More options regarding the tuning (microtones).



Multiple Instrument Method

Maria Kallionpää

Toccata

(2011)



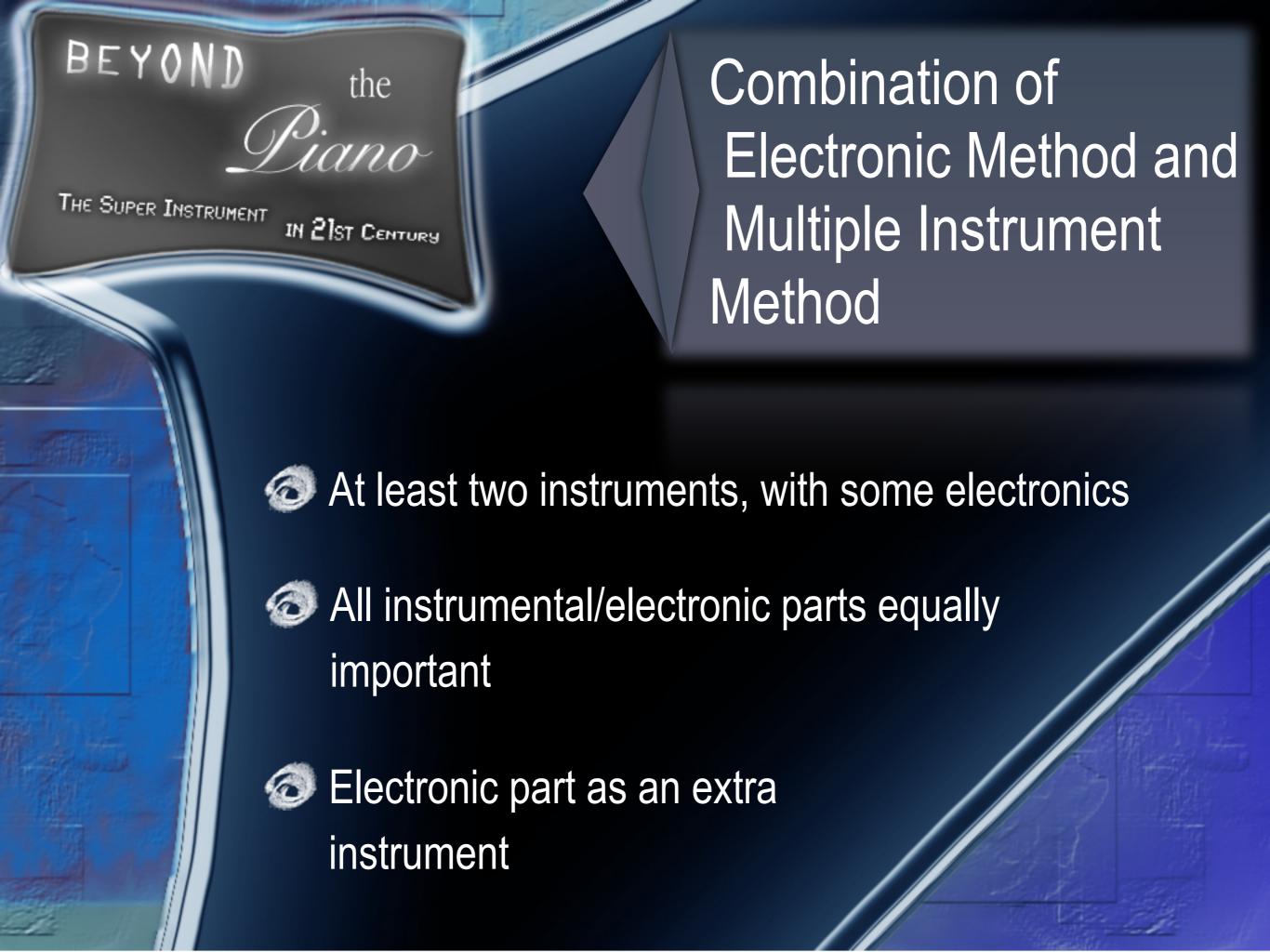
A "super pianist" sings microtones, plays toy piano and piano.

Conclusions

Virtuosity and instrumental flexibility

Textural and rhythmical overlappings

Multiplying the regular instrument by two





Combination of Electronic Method and Multiple Instrument Method

Maria Kallionpää

Trinity Mania

(2010)

A unity consisting of pre-designed samples and acoustic material

amended virtuosity

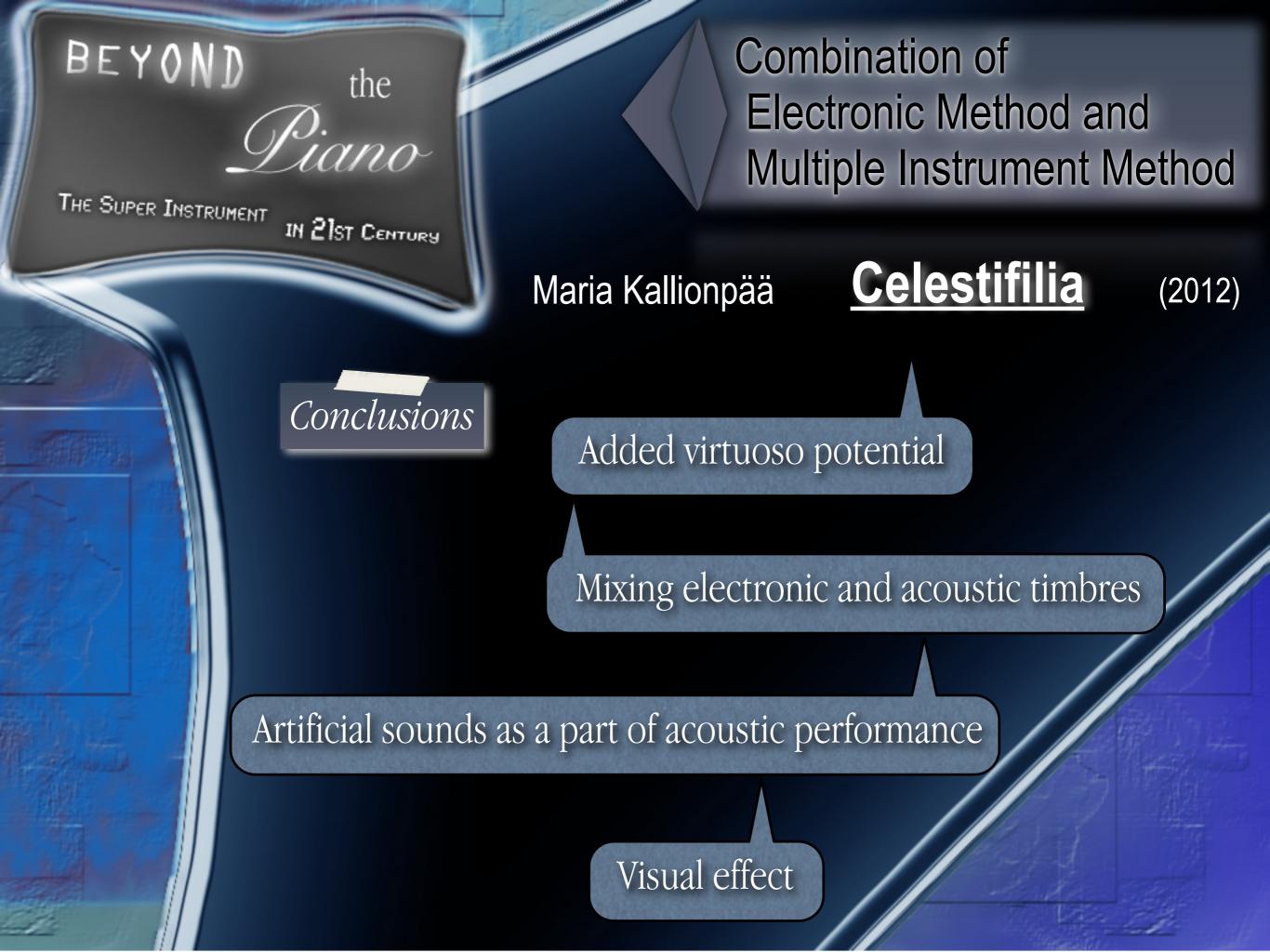
new mix of timbres

rhythmical overlappings

tuning alterations

Changing the piano's natural sound production

Visual effect







What is it?



- A hybrid instrument more than the sum of its parts
 - ✓ Consists of several instrumental/technological solutions.
 - Own identity and essence on its own right.
 - > specific (superior) sonic potentials, functions, instrumental qualities.
 - Transcending the essence and natural capabilities of a regular acoustic instrument



Identity



THE SUPER INSTRUMENT IN 21ST CENTURY



Each super instrument has its own special essence in the context of each composition.



An organic unity that has its own congruent identity.



New kind of performer identity.

Discussion

Functions

What does it do?

BEYOND the Piano

THE SUPER INSTRUMENT IN 21ST CENTURY

Depending on the context of each composition

Overcoming the limitations of an acoustic instrument, multiplying the original piano

> timbral, rhythmical, spatial, technical, or harmonic qualities, instrumental range.

A keyboard as an "orchestra" for one performer.

