

Markus Heckmann - page 11 Jobin Heckmann - page 17

France Jobin:

[Podcast](#): FRANCE JOBIN: THE SONIC, THE ARCHITECTURE AND THE QUANTUM PHYSICS

The most extensive interview related to Quantum Physics.

DISCOGRAPHY (selection related to science)

2020	Death is perfection, everything else is relative	Vinyl	Editions Mego (AT)
	Listen		
2018	Intrication	CD	No-ware (CD-DE)
	Listen		
2016	Singulum	CD	LINE (USA)
	Listen		
2014	The illusion of infinitesimal	CD	Baskaru (FR)
	Listen		
	Quark - How Does The Invisible Sound	DIG	901 Editions (IT)
	Listen		
2012	Valence	CD	LINE (US)
	Listen		
2008	10^{-33} cm	DIG	ROOM40 (AUS)
	Listen		

PERFORMANCES

2019	Séquence K	Krenek Institute - Austria
	View	
2019	DUO	PRECTXe festival, Seoul, (SK)
	View	Mutek Montreal, (CA)
2019	Intrication- Dance choreographer Nora Gibson	Fels planetarium, Philadelphia, (USA)
	View	Dance choreographer Nora Gibson
2018	Intrication with Prifma	Mutek Buenos Aires (AR)
	View	
2015	4.35 - R0 - 413	EMPAC - Concert Hall, Troy, NY (USA)
	Rennselaer polytechnique institute	24 speakers
	View	

EXHIBITIONS-INSTALLATIONS

2020	Singulum - s	AV collaboration
	View	
2017	INTER/SPERSE	Museoolaboratorio, (IT)
	View - catalogue	

Installation & workshop

Soledad - September 2018 - Museo de Arte Moderno de Medellin - LAB3



Inter/sperse Audio Installation - 11 rooms at Museolaboratorio - 2017

Room 5





Escuchas - 2015-2016

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Foto: Jhon Alexander Chica Yara

Jorge Bejarano (izquierda), curador de Proyectos Especiales, y Miguel Isaza, curador de la exposición Escuchas, en el Lab 3 del Museo de Arte Moderno de Medellín.

Twitter: @danielgrajalest

En el Lab 3 del Museo de Arte Moderno de Medellín, uno de sus nuevos atractivos, el sonido es el arte que se exhibe, esta vez no colgado en las paredes, ni en pedestales en el suelo, no hay esculturas ni pinturas, tampoco es una instalación artística, son ambientes creados por sonidos, a los cuales sólo basta cerrar los ojos para llegar. No hay nada para ver, se trata de escuchar, de que la mente sienta el arte a través de las emisiones sonoras y viaje a las geografías que proponen los artistas sonoros, creadores que se han concentrado en producir obras que no son visuales.

Esta vez la cita es con doce creadores: Alejandro Cornejo (Perú), Budhaditya Chattopadhyay (India), David Vélez (Colombia), Edu Comelles (España), Fabio Perletta (Italia), France Jobin (Canadá), John Grzinich (Estados Unidos), Manrico Montero (México), Robert Curgenvén (Australia), Simón Whetham (Reino Unido), Yann Novak (Estados Unidos) y Yannick Dauby (Francia), se trata de la exposición Escuchas, una selección de arte sonoro actual, que estará abierta desde hoy a las 6:30 p.m. y se extenderá hasta el 27 de marzo de 2016.

“Desde que comenzamos a pensar el espacio del Lab 3, a investigar, hemos definido una tipología de experiencias en las cuales se alberguen prácticas experimentales a partir del sonido, experiencias de escuchas y espacios de discusión sobre experimentación. Es paradójico que no hay referentes en Medellín ni en Colombia, cuando en países como México llevan cerca de 30 años en la exploración con arte sonoro, que en esta que es la ciudad innovadora no sea tan cercana en las artes tecnológicas. El arte sonoro como disciplina de creación diferente a la música, y lo que queremos con estos espacios, con las exposiciones y las citas académicas, es que se ponga en conversación y se generen reflexiones sobre esta práctica”, asegura Jorge Bejarano, curador de Proyectos Especiales del Mamm, quien lidera la exposición.

Miguel Isaza, investigador y experto en arte sonoro, quien estuvo a cargo de la curaduría de esta muestra, explica que “Escuchas es una selección que tiene en cuenta la pluralidad, a propósito de toda la discusión que hay entre las diferentes prácticas del sonido, que viene de los diferentes modos que hay de escuchar, de las diferentes maneras que existen para valorar el fenómeno del sonido. Normalmente se contraponen por qué es música y por qué es arte sonoro, pero las categorías son formas de apropiarnos del discurso, tanto en la música, como en el diseño sonoro, como en el arte sonoro, está el sonido. Por ello, la exposición está enfocada en obras que son hechas para escuchar, que reflejan la diversidad a la hora de escuchar el sonido, permiten varias escuchas”.

Isaza precisa que detrás de todas las obras “hay reflexiones sobre los materiales, sobre el espacio, sobre la vibración y eso permite replantear ciertos valores que normalmente son como del dominio de lo visual y eso es lo que el arte sonoro tiene para aportar que es un poco la crítica a lo visual, a lo conceptual, a un discurso que nos haga siempre ver cosas, el sonido es un dispositivo crítico a toda esa dictadura de lo visual”.

Así, su propuesta curatorial tiene que ver con un recorrido desde India hasta Australia, pasando por Colombia, España, Perú, que tiene como fin “mostrar cómo se replantea el arte sonoro dependiendo de dónde está”.

Entre los artistas de Escuchas están Manrico Montero (México), quien “realizó una obra con sonidos de la selva amazónica boliviana, la cual tiene sonidos de insectos, anfibios, es un poco hipnótica, porque juega con esa cacofonía de lo natural; a su vez, el canadiense France Jobin trabaja el microsonido, con lo minimalista y es difícil reconocer las fuentes, el dónde grabó, no hay una referencia documental, sino los impulsos emocionales de la artista para crear la obra.

Por Colombia, el artista invitado fue David Vélez, quien, concluye el curador, comparte “una obra en la que está muy presente el oxidado, el cómo en la materia se reflejan procesos de conciencia, lo que se pierde pero que conserva un valor estético enorme en el tema sonoro”.

PRESS RELEASES (science related)
2020

Death is perfection, everything else is relative Vinyl Editions Mego (AT)

The last two years have seen me maintaining an association with an unusual bedfellow, death. The loss of Mika Vainio, as well as three members of my own family, has had a profound effect on me and spurred a lengthy reflection on life, death, and everything in between.

Parallely, while studying the philosophy of science, I came across shadow photons:

"Tangible photons are the ones we can see or detect with instruments whereas shadow photons are intangible (invisible) detectable only indirectly through the interference effects on the tangible photons.

There is no intrinsic difference between tangible and shadow photons: each photon is tangible in one universe and intangible in all the other parallel universes.

Shadow photons would go entirely unnoticed, were it not for this phenomenon and the strange pattern of shadows by which we observe it.

They travel at the speed of light, bounce off mirrors, are refracted by lenses, and are stopped by opaque barriers or filters of the wrong colour. Yet, they do not trigger even the most sensitive detectors. The only thing in the universe that a shadow photon can be observed to affect is the tangible photon that it accompanies. This is the phenomenon of interference.

Thus the existence of a seething, prodigiously complicated hidden world of shadow photons has been inferred."*

I have drawn a parallel between shadow photons and death. The interference phenomena, parallel universes, and how shadow photons affect tangible photons they accompany, offer, in my opinion, similarities, an unknown universe which is death and how we, remaining tangible human beings, are affected. This quest has led me to be more willing to accept chaos in my life and to conclude that Death is perfection, everything else is relative.

*The fabric of reality, David Deutsch, Penguin Press 1997.

2018

Intrication CD No-ware (CD-DE)

No. welcomes Canadian France Jobin to the label.

The Montreal based artist will release her 9th album on No.. With her release entitled 'Intrication', she grapples with some truly cosmic concepts involving Quantum Entanglement (go on, Google it..) amongst other truly magical ideas which physics tend to invent these days.

Musically the release can be described as 'microsound ambient' but we think it's much larger than that. It is at once comprised of microscopic sonic particles yet combines that with the warmth we know and love from the 'Ambient' cosmos.

Whilst the sub atomic particles of noise bounce around your mind, the total work weaves a warm blanket of audio enjoyment on both the micro and macroscopic levels revealing a world at once both too tiny to comprehend and too large to grasp. Presented here as No. 916 for your scientific scrutiny.

2016

Singulum CD LINE (USA)

Quantum physics inspires me to draw a parallel between the fundamental building blocs of physics, sounds and music. I put field recordings through a series of editing and manipulation processes which result in very different sounds from their origins. These manipulations affect time, timbre, harmonics and the essence of each sound, whereas composition influences how they relate to each other.

Singulum represents an unattainable goal, the process of decay while conserving a continuation of information.

2014

The illusion of infinitesimal CD Baskaru (FR)

«The Illusion of Infinitesimal represents another chance to refine the unique essence of each sound and composition, in an effort to better communicate intent without influencing its unfolding, a delicate balance between perfection and detachment.

A parallel could be drawn from particles of matter, which, "as far as we know, are infinitesimal points of zero size, yet they have measurable amounts of angular momentum. Does the concept of rotation even make sense for a featureless speck? Angular momentum seems to be a more foundational concept than rotation itself. The angular momentum, or spin, of a single particle is restricted in strange ways. It can have only certain values, and not all values are allowed for all particles." (1)

Perfection and uncertainty.»

(1) Collage of quotes from Jim Pivarski, "Spin", Symmetry Magazine, March 2013.

2014

Quark - How Does The Invisible Sound DIG 901 Editions (IT)

"Art does not reproduce what is visible, it makes things visible" Paul Klee

Quark: How Does The Invisible Sound? is a media project born with the specific intent of exploring the possible inter-relationship between sound and the invisible, strictly related to science and physics. It relies on monthly digital releases and a MaxMSP custom software called Cconfin, inspired by elementary particles interactions and a physical phenomenon known as Colour Confinement.

The software allows the artists and musicians involved to seek and discover their own vision of the invisible through sound by treating and processing audio files via custom algorithms. Presented as a collection of digital graphic cards and heterogeneous sound art pieces, the research aims to find a deep connection as close as possible to the boundary of knowledge. An attempt at quantum sound in a not-visible yet perceptible world.

2012

Valence CD LINE (US)

"Valence is inspired by both the valence bond (VB) and molecular orbital (MO) theories.

An atomic orbital is a mathematical function that describes the wave-like behavior of either one electron or a pair of electrons in an atom. This function can be used to calculate the probability of finding any electron of an atom in any specific region around the atom's nucleus. The term may also refer to the physical region defined by the function where the electron is likely to be. Often, my compositions start with a feeling or emotional state. There is a likelihood of finding a certain emotion in a piece, but it is not guaranteed, nor do I know exactly when or where I will find it. The act of looking for that emotion in of itself will distort it. Although one would think experimental music grants complete freedom, when composing, I feel constrained by both my mental state and the way in which I build the piece.

I find an unlikely parallel in quantum theory and composing. The electron that can exist on a different orbital plain can never have it's velocity measured or even its exact location known, due to the intimate connection between particles and waves in the wacky world of subatomic dimensions."

2009

10⁻³³ cm DIG ROOM40 (AUS)

18U's 10-33 cm is a audio work of varied proportion and calculated shape. Based on the ideas associated with String Theory, this latest offering from Canada's France Jobin is a compelling meditation on the nature of sound in time.

"10-33 cm is the theoretical size of the strings that makes up the universe." Jobin explains, "Resonance is the vibrational pattern, which determines what kind of particle the string is, and thus the type of particle is the movement of the string and the energy associated with this movement."

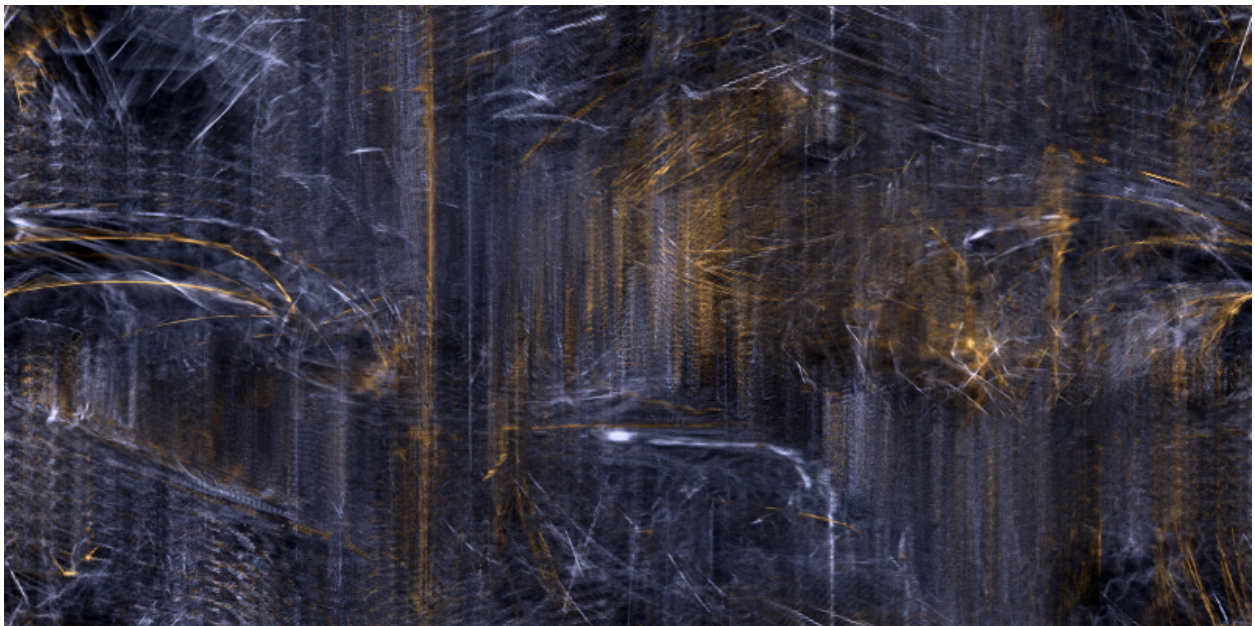
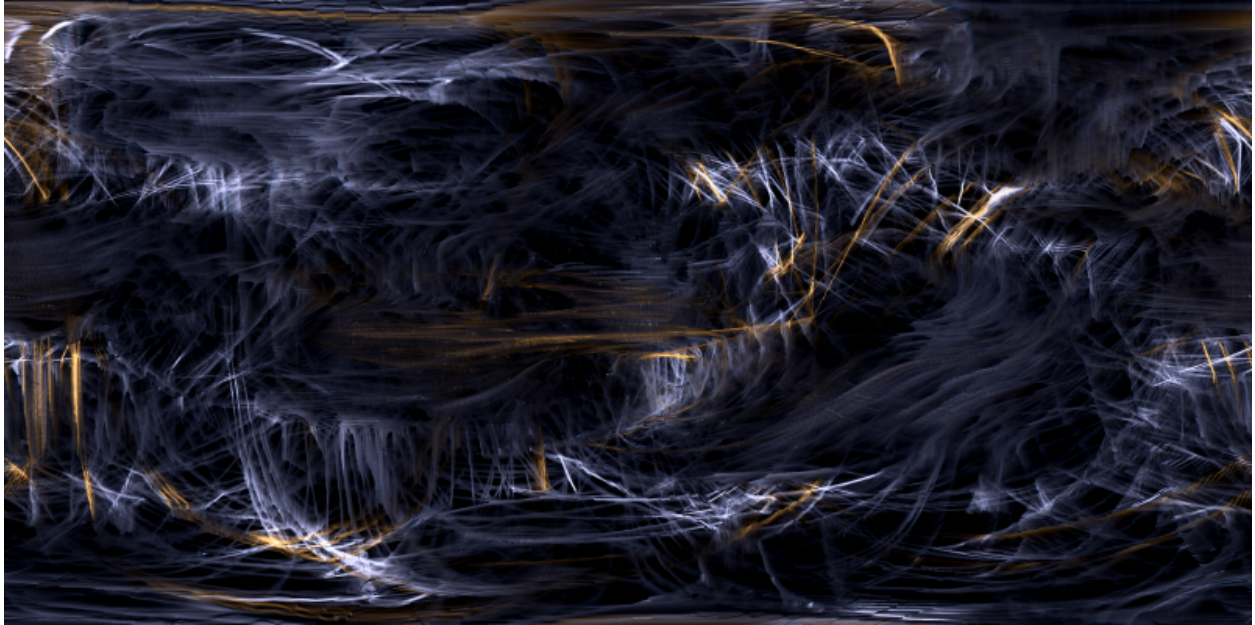
With 10-33 cm, Jobin creates a shimmering mirror that reflects on our somewhat limited understanding of these strings as they slip in and out of the dimensions we are aware of. More so, each of the pieces suggest a visionary 'vibration chart', that explores the possible resonances of these theoretic discourses. Through sound, I8U's explorations of String Theory are made almost tactile - a refined bridge between rhetoric and creation.

Markus Heckmann:

reclusion II (2021)

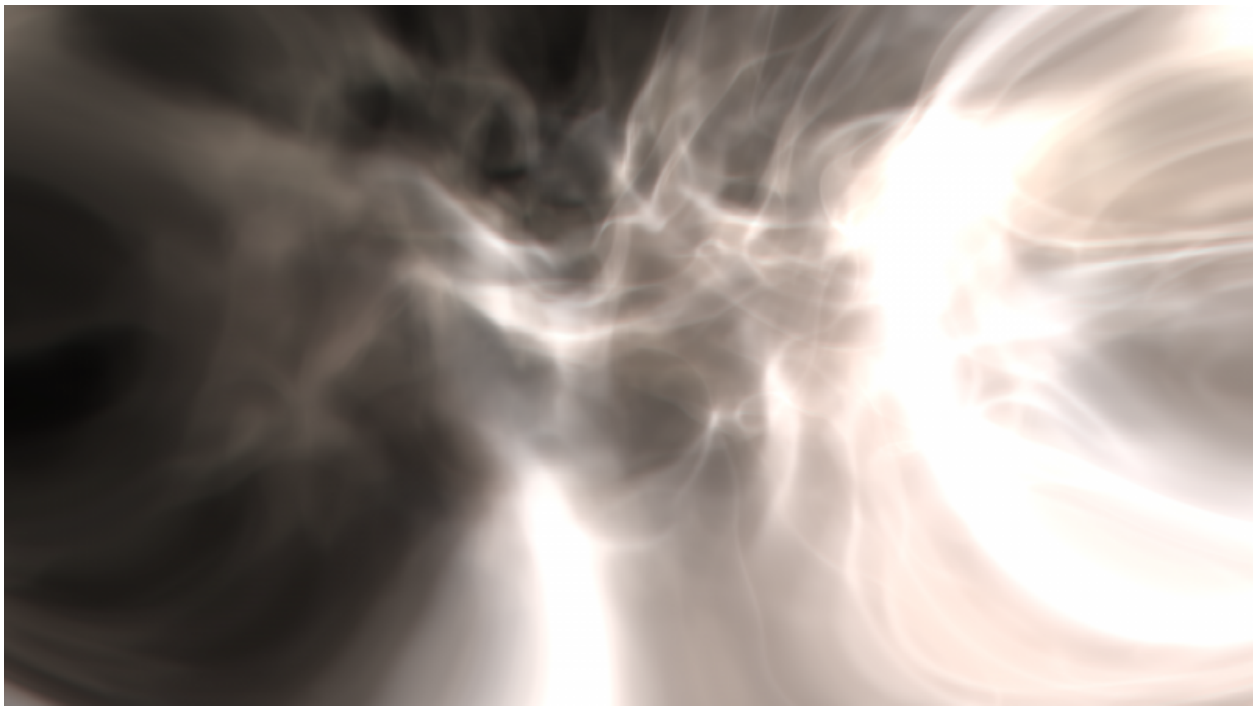
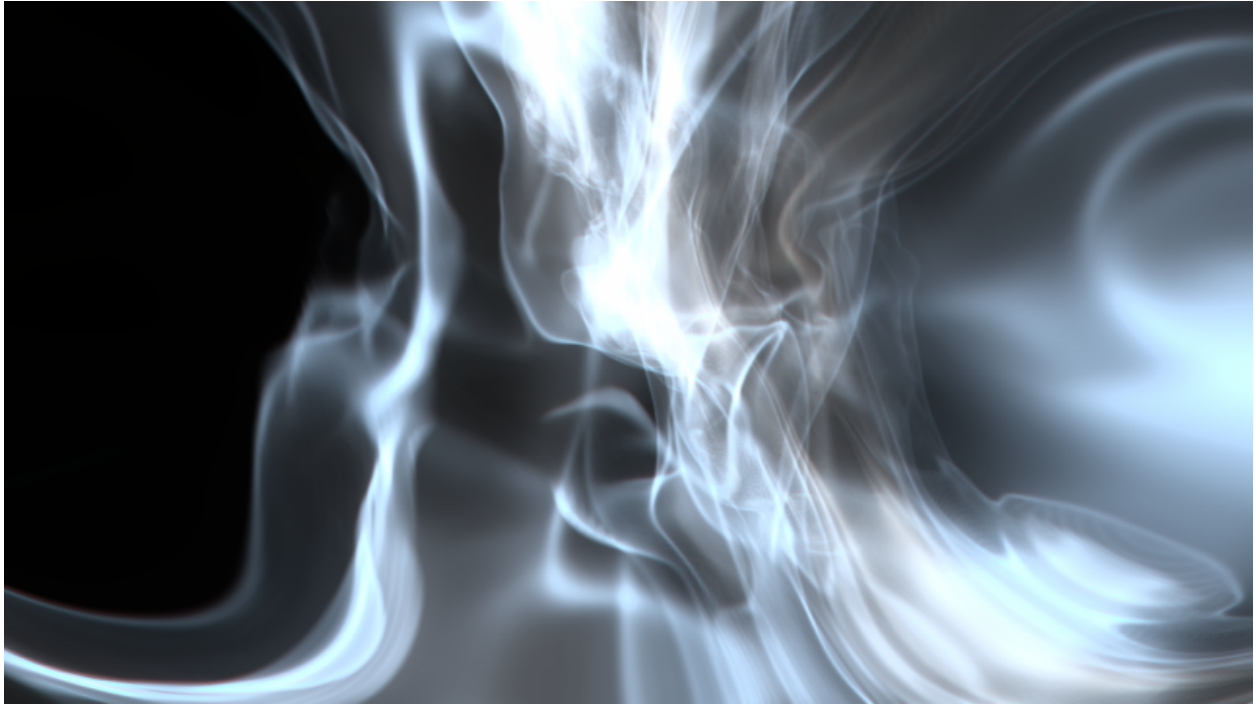
Reclusion is an audio visual collaboration with Toronto based sound artist [Matt Thibideau](#).

[HYBRID - Cutting Edge Canada 2021](#), Hellerau, Germany

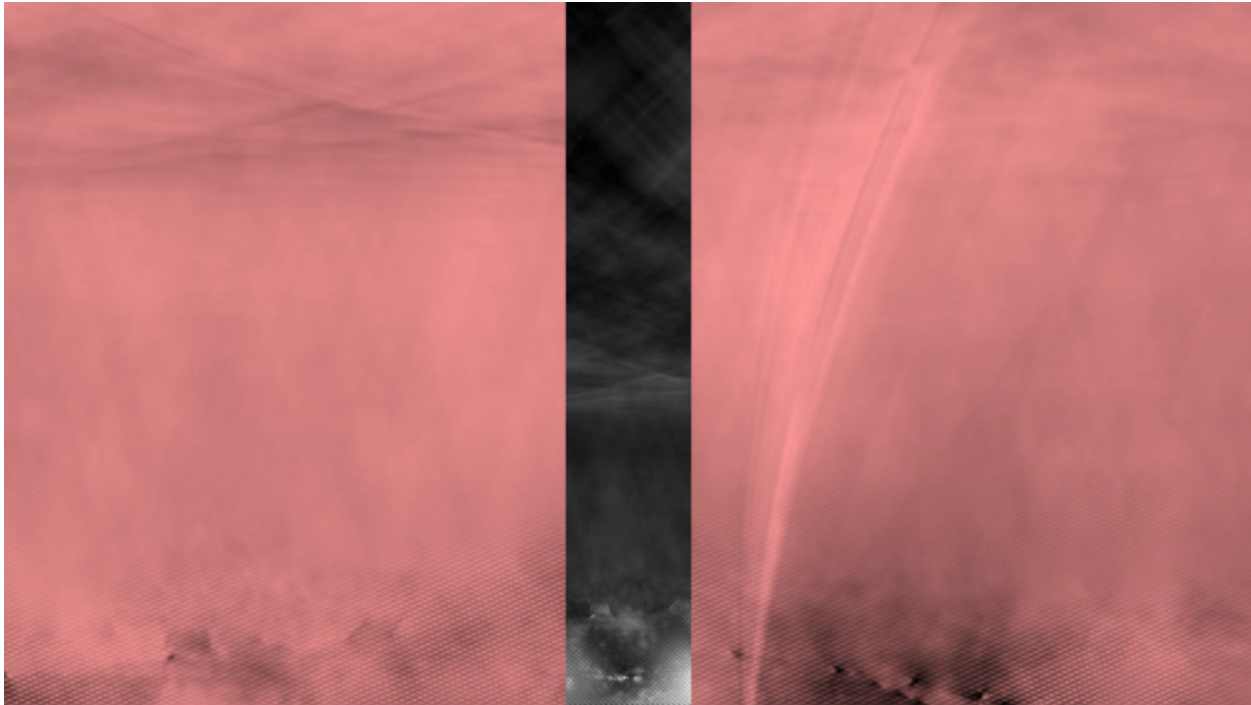


IVIC

video for "You Cannot See Me From Where I Look At Myself 1" by Saele Valesse from the record [N+001] SAELE VALESE 'IVIC' LP (NOTON)



harbor darkness (for c&c) [video](#) for "Harbor Darkness (for C&C)" by Richard Chartier available on [bandcamp](#)



raster-noton 20: screen

Audio-Visual Installation on occasion of [raster-noton's](#) 20th anniversary.

[Tonlagen](#) 2016, Hellerau, Germany

RECLUSION - 2014

Reclusion is an audio visual collaboration with Toronto based sound artist Matt Thibideau.





Kohärenz (2013) site specific laser installation in a defunct industrial elevator. The laser projector is placed 4 stories up in the building and emits simple animated patterns towards the viewer. Details of the elevator shaft are illuminated while the exact position of the source remains hidden.

Fourth Annual ArtSpin Exhibition 2013, Tower Automotive Building, Toronto, Canada



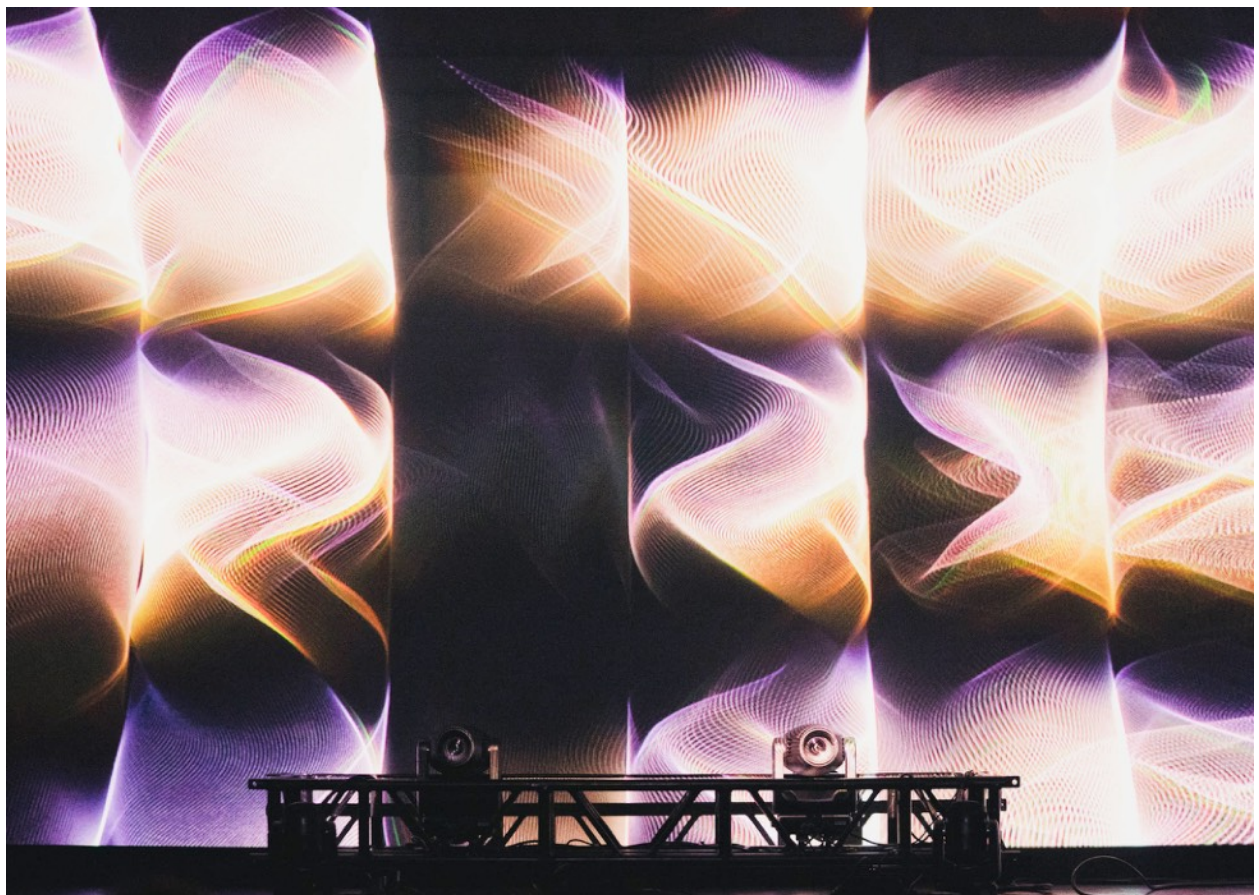
France Jobin + Markus Heckmann

France Jobin and Markus Heckmann started working together in 2019 on their first collaboration DUO with LA sound artist Richard Chartier. DUO was presented at Mutek in 2019 and Prextce Festival in South Korea. In 2021, Markus and France collaborated on a new AV project, Entanglement.

Entanglement is an artistic project at the crossroads of scientific research inspired by the concept and properties of entanglement in quantum physics and quantum fields theory. The sources of inspiration of France Jobin and Markus Heckmann are based on the two current dominant theories explaining quantum entanglement: the Copenhagen interpretation and the multiverse (quantum decoherence). In addition to these two theories, there is the fluidity of time and the principle of quantum entanglement. The Entanglement performance is inspired by the same theories; an ambitious immersive experience that was presented as a world premiere at the 22nd edition of MUTEK.

Entanglement - Photos by Bruno Destombes





To view DUO - [here](#)

To view Entanglement (except) - [here](#) PW: time

To view Entanglement photos - [here](#)

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