



INFINITE PENDULUMS

by Virgile Abela

IIINFINITE PENDULUMS



Pic © Jeanne Dubois Pacquet

DESCRIPTION

INFINITE PENDULUMS is a kinetic, sound and light installation that resonates with gravity. In the acoustic imprint of the exhibition space, four large pendulums, one microphone, two subwoofers and twelve projectors – the installation's performing instruments – cyclically (re)interpret a 30-minute sound, kinetic and light composition in three parts, following a Night – Day – Twilight cycle.

INSTALLATION

In the context of gravity, the pendulums present themselves to our gaze with the strange appearance of robotic animals, addressing our physical bodies. Their hypnotic behaviour invites us to explore the paradoxes of the finite and the infinite, as well as wave-particle duality, playing with the audience's retinal persistence. It is in these interstices that the work finds its poetic and vibratory language.

PROCESS

The writing is based on a modular ecosystem that correlates the kinetic data of the pendulums on three planes in time with real-time analysis of audio feedback between a microphone in the centre of the room and speakers installed in the moving spheres. This data is routed into sound and light modulation inputs at several conditional levels. This correlation principle then generates evolving landscapes, giving the installation a certain freedom to interpret its own score.

EXPERIENCE

The audience moves freely through the space-time of a shifting work with no beginning and no end, where shadow play, light diffraction and moving sound spatialisation constantly redraw the contours of the space in which bodies move.



CREATION 2025



Pic @ Jeanne Dubois Pacquet

Virgile Abela >
Artistic direction, composition, programming

Arié van Egmond > lighting

Patrick Sanchez > electronics
Etienne Gourc > robotics and modelling
Jean-Marc Corneloup > digital machining

Valentine Guillien, Sylvain Gorget > construction
Vincent Long, Sébastien Wierinck > 3D printing

Scientific support >
MAS LMA-ECM-CNRS-AMU Platform, Marseille

Technical support >
Collectif Manœuvre, Caen

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>>> [VIDEO & PHOTOS](#)

Executive production >
Station MIR, Caen

Co-production >
GMEM, Marseille
Un Singe en Hiver, Dijon
Maison de la tour, Valaurie
Euphonia, Marseille

Financial support >
Millénaire de la Ville de Caen
UNESCO Creative City
SCAN (fund supporting digital arts creation)
DRAC Auvergne Rhône-Alpes
DRAC Bourgogne Franche-Comté
SACEM (creation grant)

With the collaboration of Oblique/s

Creative residencies >
[Marseille] Laboratoire de Mécanique et
d'Acoustique, CNRS, GMEM-cncm, CAP15
[Dijon] Un Singe en Hiver, [Caen] ESAM

Premiere at the]Interstice[1000 festival, December
2025, Caen

Propagations Festival, GMEM-cncm, May 2026,

PRESS



Pic @ Joanna Godet

Article by Dominique Moulon, [revue TK21](#)

'The laws of physics, including gravity, play a major role in the creation of music generated in real time by this walking instrument. So much so that the experiences of listeners can be described as unique, since they are never repeated in exactly the same way...'

[Cave Caenem](#) _ Caen cultural news

'The power of the installation takes a little getting used to, as the movement of the pendulums is slow and subtle to observe at first, but the grandiose finale is a magnificent offering...'

[Sparse Magazine](#) by Killian Cestari

'...It's easy to be captivated by this harmonious and hypnotic ensemble'

[Quest France](#), by Laurent Neuveu

'Highly conceptual but mesmerising...'

SPECIFIC SCENOGRAPHY FOR EACH SPACE

LIGHTING

The lighting settings involve using the walls and floor of the space as surfaces for projecting the shadows of the pendulums. They require specific adjustments for each space.

Discreet mounting of automatic projectors. Mounting brackets.

SOUND

Acoustic adaptation to the resonance frequency of the room.

Subwoofers placed on the floor, clean cable runs from the control room to each device.

Microphone suspended from the ceiling in the centre of the room.



Pic @ Jeanne Dubois Pacquet

DISTANCES BETWEEN THE PENDULUMS

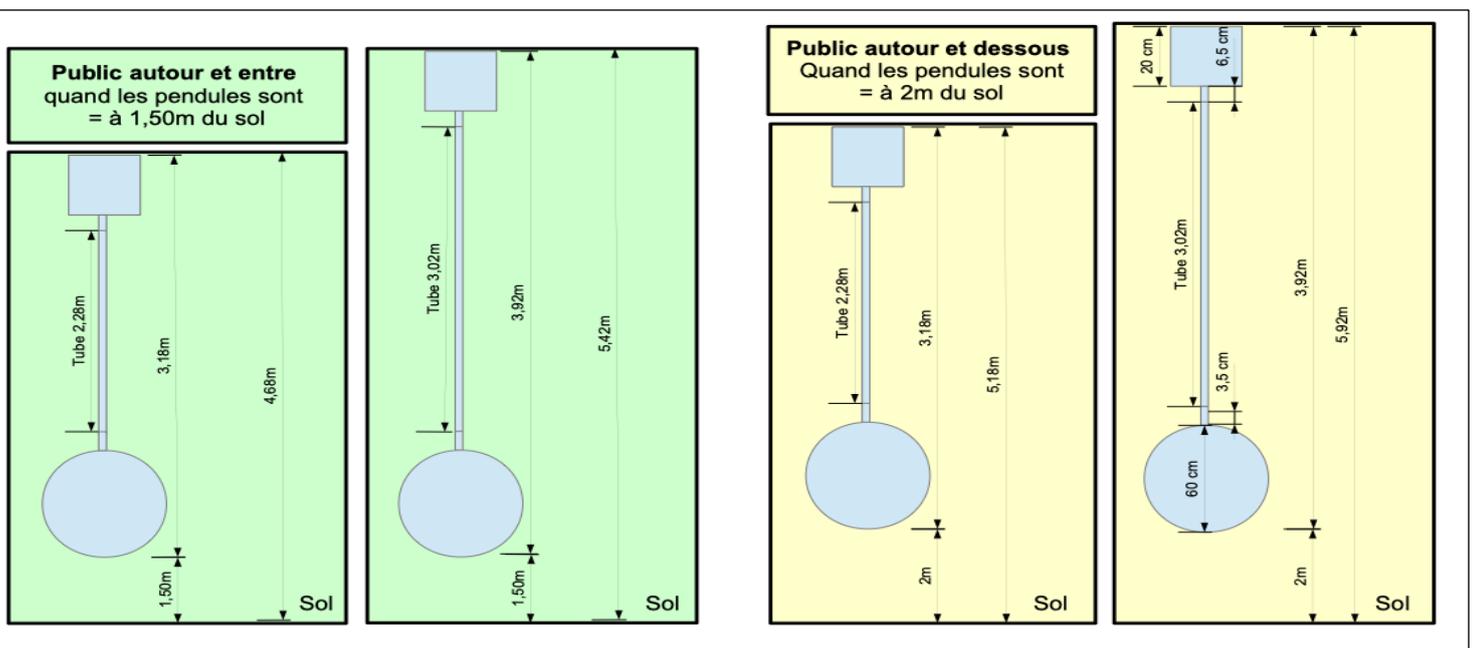
Their hanging height determines the scenographic design of the work. It must be considered in relation to the proportions of the space and adapted to its height, either 2 meters above the ground, allowing the audience to walk underneath, or 1.5 meters above the ground, with the audience remaining around it.

The pendulums are spaced 4 meters apart.

PENDULUM HEIGHTS

2 pendulum heights available: 3.28 m or 3.92 m
 1 hanging box: H26.50 x W30 x D27 cm
 1 sphere: 60 cm diameter
 1 tube, 2 sizes available: 228.50 or 305.50 cm

Other heights available on request 2 months in advance for manufacturing +€500.



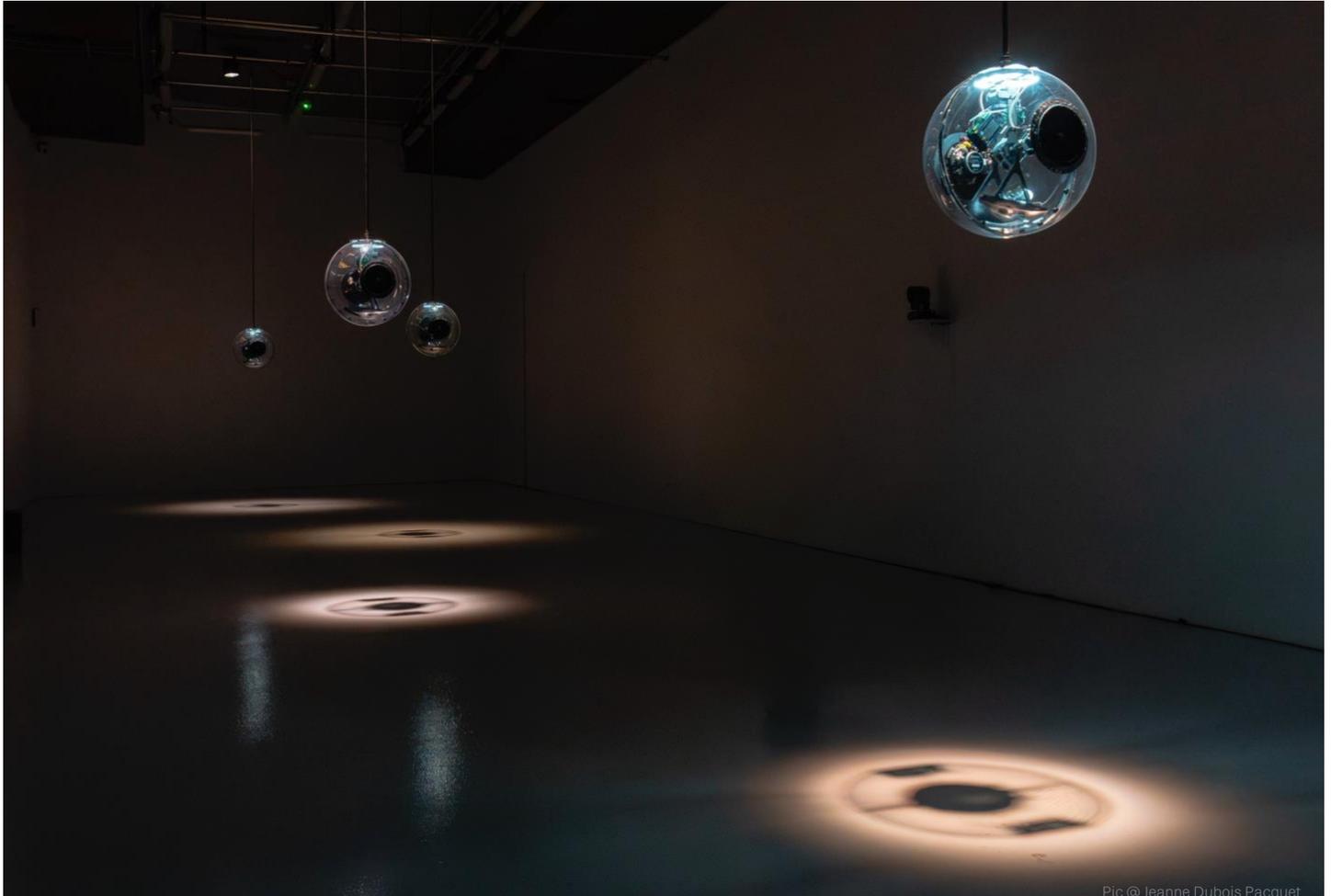
TECH RIDER

INSTALLATION

4 light pendulums	1 hanging microphone
4 shower lights	2 floor subwoofers
4 moving heads lights	1 ceiling router
1 stroboscope	1 hidden control room
16A consumption	Floor and ceiling cables

TYPE OFF SPACES

Dark room or covered outdoor night show
Height between 4 and 6 meters
Minimum surface area of 80m²
Square, rectangular or circular space
Work sensitive to waves, room without Wi-Fi or mobile



Pic @ Jeanne Dubois Pacquet

TECHNICAL REQUIREMENTS FOR THE ORGANISER

- Hanging surface ready before assembly
- Genie-type lift or scaffolding
- Large stepladder for working at 2m
- Tools available
- 1 table, 2 chairs
- 1 22" HDMI screen
- Spear of XLR, DMX and electrical cables

EQUIPMENT PROVIDED BY THE ARTIST

- 4 light pendulums + tubes + hooks
- 2 subs, 1 microphone, 2 preamps, 1 4-ch amplifier
- 1 Mac mini, 1 Enttec USB Pro, 1 sound card
- 4 LED pars, 4 autos + wall mounts
- XLR, DMX, electrical and Ethernet cables
- Router
- Tools

SETUP / TEARDOWN

The artist + lighting technician + 2 technicians:

- D-5 Arrival of the artist and equipment, unloading and storage on site, hanging surface ready.
- D-4 Installation of pendulums and wiring of the entire system > 1 day with 2 technicians
- D-3 Kinetic and sound adjustments and lighting installation > 1 day
- D-2 & 1 Lighting adjustments with the artist and Arié van Egmond (lighting technician) > 1 day
- D-D Timing programming, cleaning of the space and opening to the public in the evening
- Dismantling ½ day



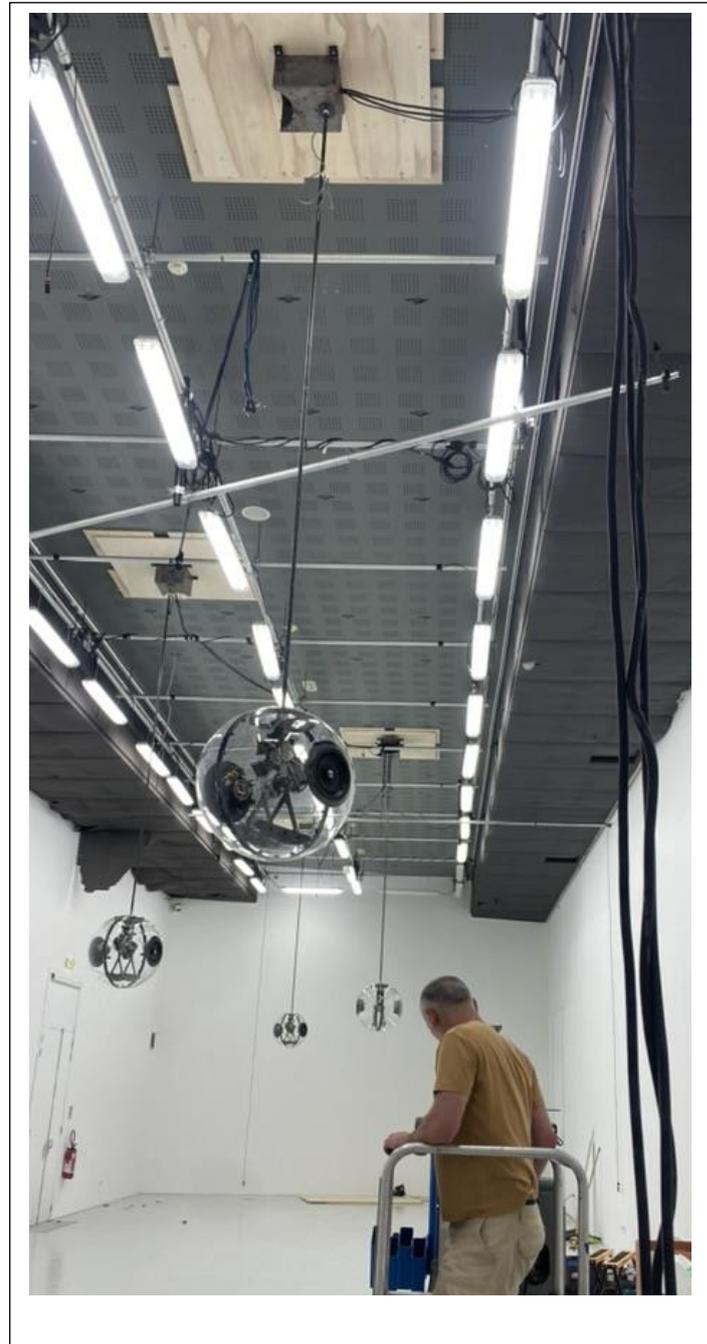
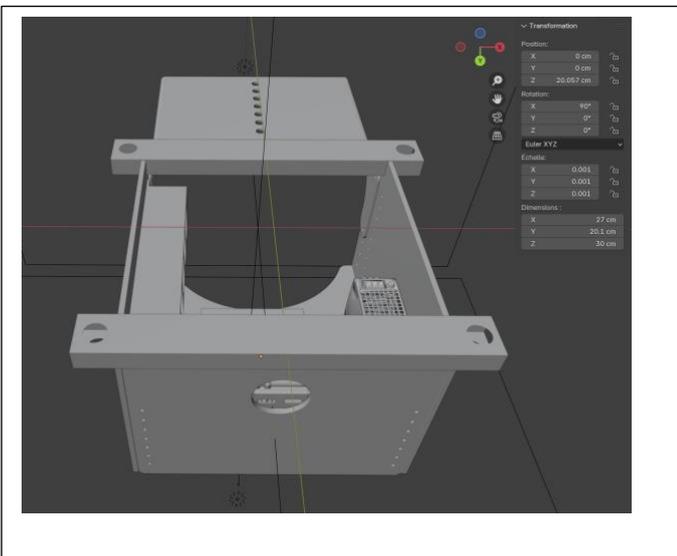
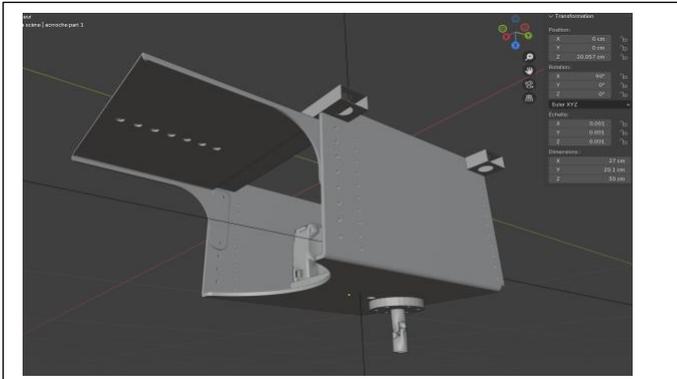
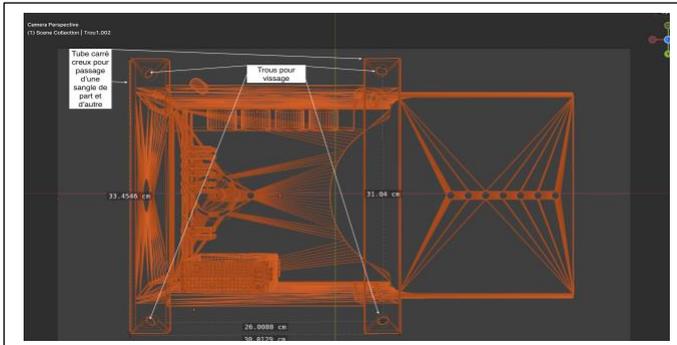
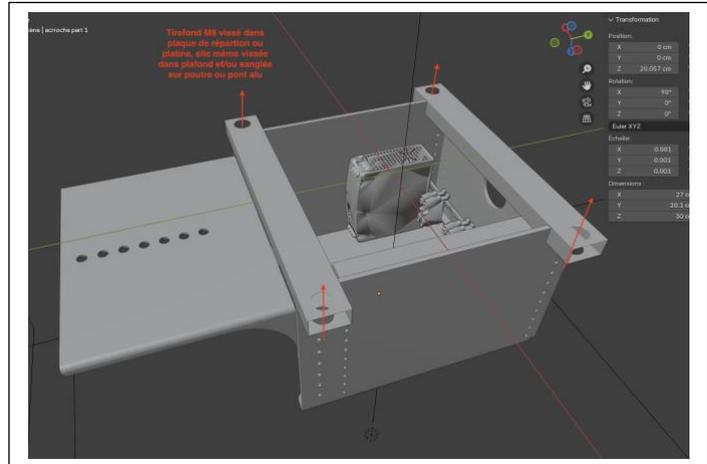
PENDULUM MOUNTS

Attached to the frame on a fixed surface

Fastened by screws and/or straps to a 22 cm CP distribution plate anchored to the ceiling, or strapped to a beam

INSTALLATION TECHNIQUE

1. Attaching the hanging box to the ceiling
2. Attaching the tube to the sphere on the floor
3. Attaching the tube + sphere to the hook
4. Attaching the pars to the hook
5. Attaching the strobe, microphone and router
6. Lighting and sound cabling
7. Installing the control room
8. Installing the subs on the floor
9. Installing the cars 2 metres above the floor on shelves



TRANSPORT

Either by van with the artist

Or by courier and the artist travelling by train or plane

1	COLISAGE	Hauteur/cm	Largeur/cm	Profondeur/cm	Cubage/m3	Poids/kg
2	Subwoofer 1	47	57	56	0,150024	22
3	Subwoofer 2	47	57	56	0,150024	22
4	Tools box	50	30	40	0,06	12
5	Box Strobe	22	30	56	0,03696	4
6	Box Accroches	47	44	75	0,1551	48
7	Box 4 pars	39	54	54	0,113724	16
8	Box supports	47	57	56	0,150024	10
9	Flightcase Autos	66	54	36	0,128304	35
10	Flightcase Régie	53	58	32	0,098368	23
11	Flightcase cables	57	46	63	0,165186	45
12	Flightcases pendules 1	70	65	65	0,29575	35
13	Flightcases pendules 2	70	65	65	0,29575	35
14	Flightcases pendules 3	70	65	65	0,29575	35
15	Flightcases pendules 4	70	65	65	0,29575	35
16	Grand tube pendules 1	302	2	2	0,001208	3
17	Grand tube pendules 2	302	2	2	0,001208	3
18	Grand tube pendules 3	302	2	2	0,001208	3
19	Grand tube pendules 4	302	2	2	0,001208	3
20	Petit tube pendules 1	228	2	2	0,000912	2
21	Petit tube pendules 2	228	2	2	0,000912	2
22	Petit tube pendules 3	228	2	2	0,000912	2
23	Petit tube pendules 4	228	2	2	0,000912	2
24	TOTAL	2875	763	800	2,399194	397

