

Second International Scientific and Practical Conference
“The Art of Sound and Light”
St. Petersburg, Russia
October 18-20, 2021

“Lumage” – Wobbulator Then and Now

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Early sound generated visuals/lights

- early media electronic instruments upgradeable for experimental art
- analog audio/video is an open, modular system
- various possibilities to transmit signals



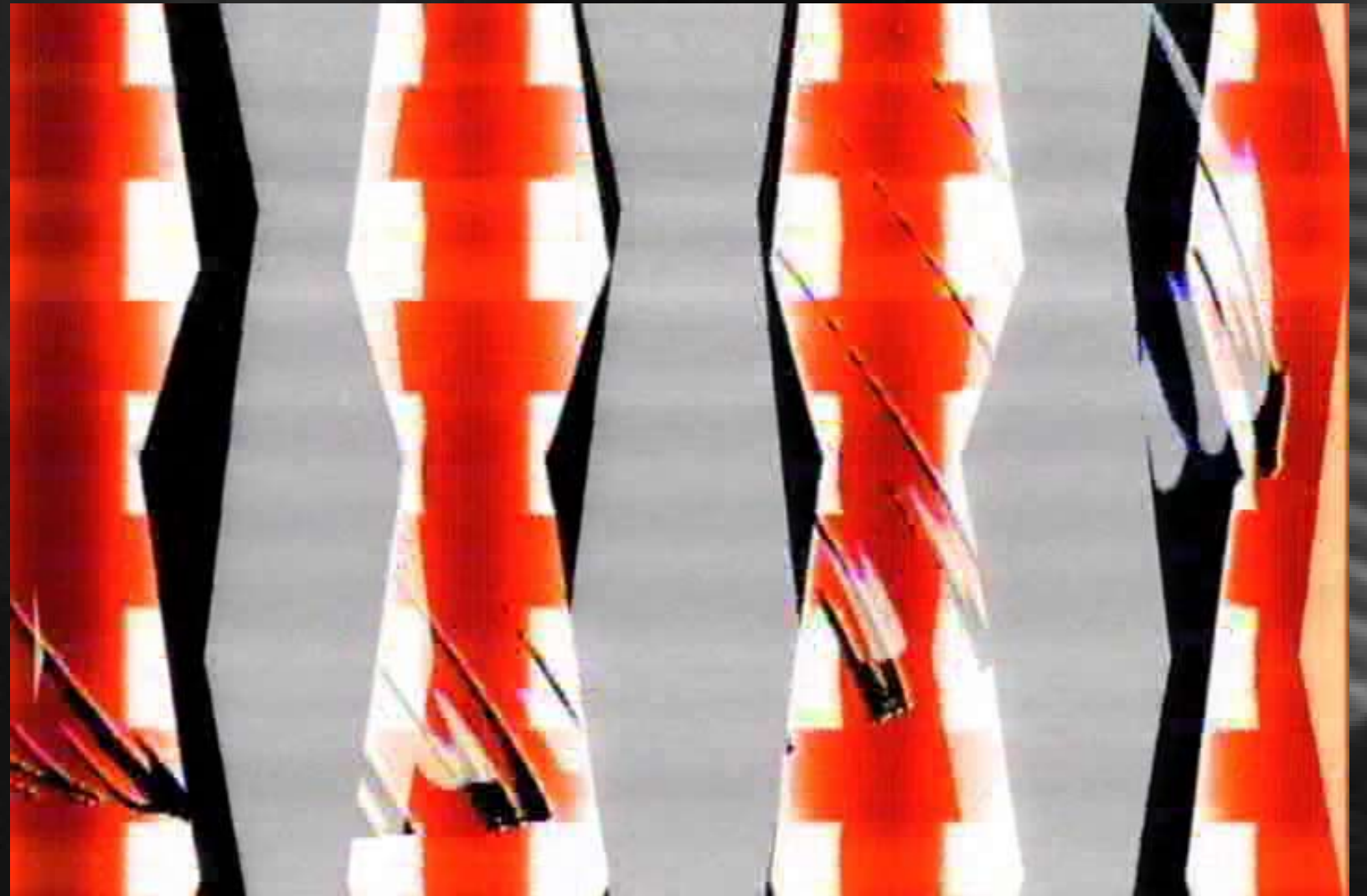
Signal Culture, Analog Studio, Owego, NY, USA, 2019.
Photo: Zs. Gyenes



- multiple connections
- exchange of audio and video signals
- sound signals can be translated into image signals at the same time

Analog modular audio synthesizer and Jones Colorizer and Mixer.
Signal Culture, Owego, NY.
Photo: Zs. Gyenes, 2019.

- the image and sound are produced from the same source
- like musical instruments (actually, together, it is an audio-vid-
eo instrument!)
- interaction



Zs. Gyenes: One Minute Signal (still), Analog audio-visual work of art, 2019.

Working in SC studio.

Photo: Kalpana Subramanian, 2019.



- generated movement, shapes, and light
- real-time recording and manipulating
- abstract graphic patterns
- 3d forms
- transfer messages from one medium to another
- transposition, translation, manipulation, deformation
- new aesthetics

Live electronics. Hybrid technique.
Improvisation by Zs. Gyenes and Zsolt
Koroknai. Gyermely, Hungary, 2021.

- analog video synthesizers are video equivalents of audio synthesizers
- using live cameras / self-contained setups
- live performance / studio situations
- (in) real time!
- size and huge expense
- hybrid techniques; analog and digital
- can be seen as comparable to free jazz



“Synchresis” – The score of the audio-visual work of art titled Collage.
Music: Yu Miyashita, video: Zs. Gyenes, 2020.

- synchronization,
- asynchronism, or
- “synchresis” (Chion)
- not automatic

The image shows a handwritten musical score on graph paper, titled "Collage" by Yu Miyashita, dated March-April 2020. The score is organized into several horizontal tracks. At the top, there are four circled numbers (1, 2, 3, 4) with musical notations: ① 7/5 key, ② 7/4 key, ③ 7/3 key, and ④ 7/6 key. Below these are several tracks labeled "V2" (Video 2) with various annotations such as "buffer", "retrace", "mass", "mod", and "delay". The tracks are filled with colorful scribbles and lines in purple, green, blue, and orange. A central track contains a series of numbers (10, 9, 8, 7, 6, 5, 4, 3, 2, 1) and a sequence of numbers (4, 1, 2, 1, 3, 4, 5, 1, 4, 5, 2, 4, 1, 2, 3, 4, 1, 3, 4, 1, 4, 3). At the bottom, there are more annotations including "A No Effect", "retrace", "mod", "Delay", "Color", and "Video 8". The score is a complex, multi-layered composition of visual and musical elements.

Wobbulator

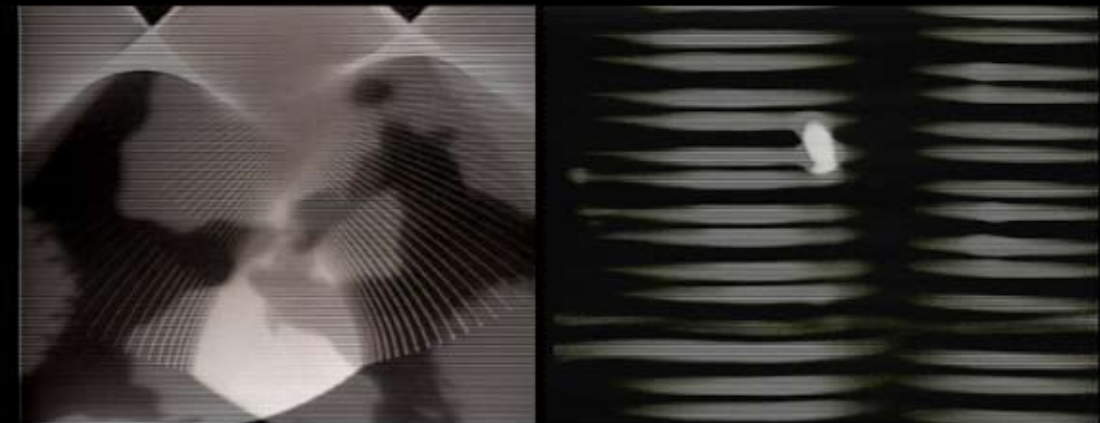
- prepared television
- (basically) a special video-synthesizer!
- wide varieties
- signals derived mostly from audio
- distortions
- direct correspondence
- live / prerecorded source



Wobbulator (Jones Raster Manipulation Unit). SC, Owego,
NY., USA.

Photo: Zs. Gyenes, 2019.

- endless series of patterns
- controll (and randomness too)
- the yokes are electromagnets, they react to the audio amplifier that a sound speaker responds



Zs. Gyenes: Paralel improvisations with applying analog audio sources and wobulator (Duo-Sonata, 2019-2020, still).



Visual Music

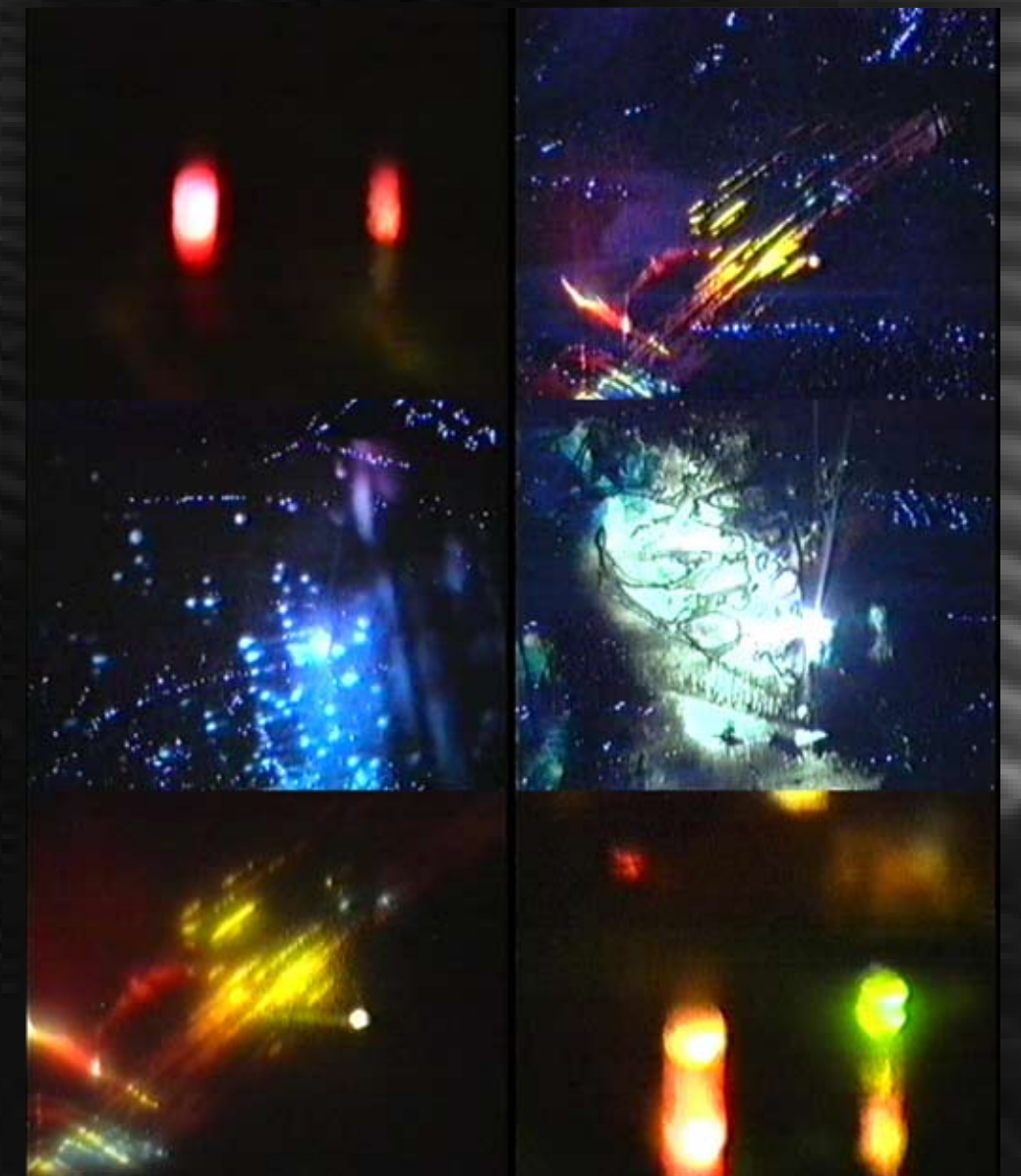
- moving lights; music for the eye
- correspondences of the color spectrum and sound waves
- light and sound
- expanding the field rapidly
- interdisciplinary
- visual equivalents of melody, rhythm and counterpoint

Zs. Gyenes: Collage. Video for the music of Yu Miyashita, Hybrid technique, 2020 (still images).

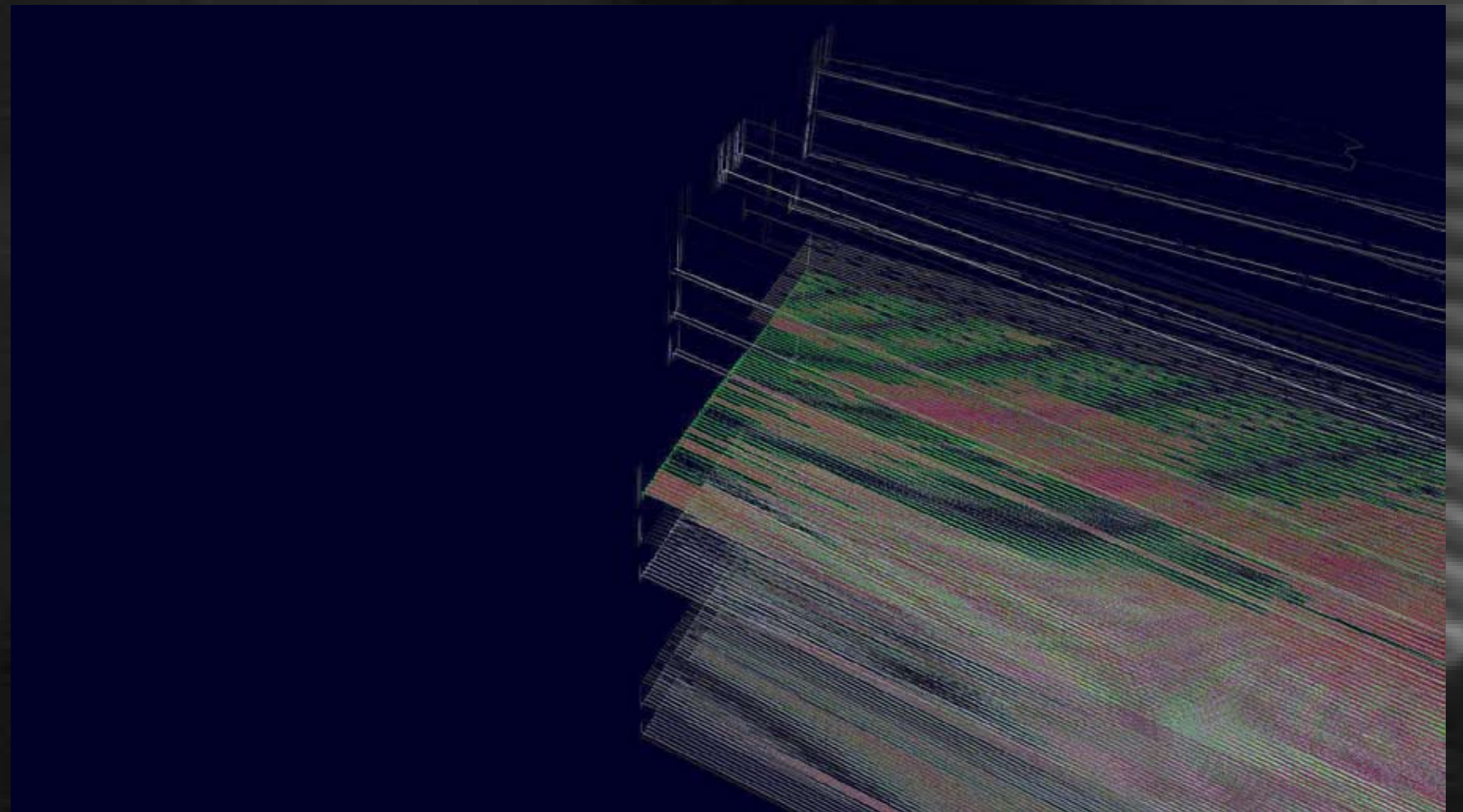
Analog, digital and hybrid media

- analog and digital
- their different creative uses and strengths
- analog:
rich organic textures,
redrawing itself with slight differences,
“faults”, artifacts

Zs. Gyenes: Altered Dimensions
VHS video, 1994.
(still images)



- analog audio-video is reference medium for experiments in digital media
- hybridity between hearing and seeing, and analog and digital techniques
- new possibilities
- new media software applications for real-time works

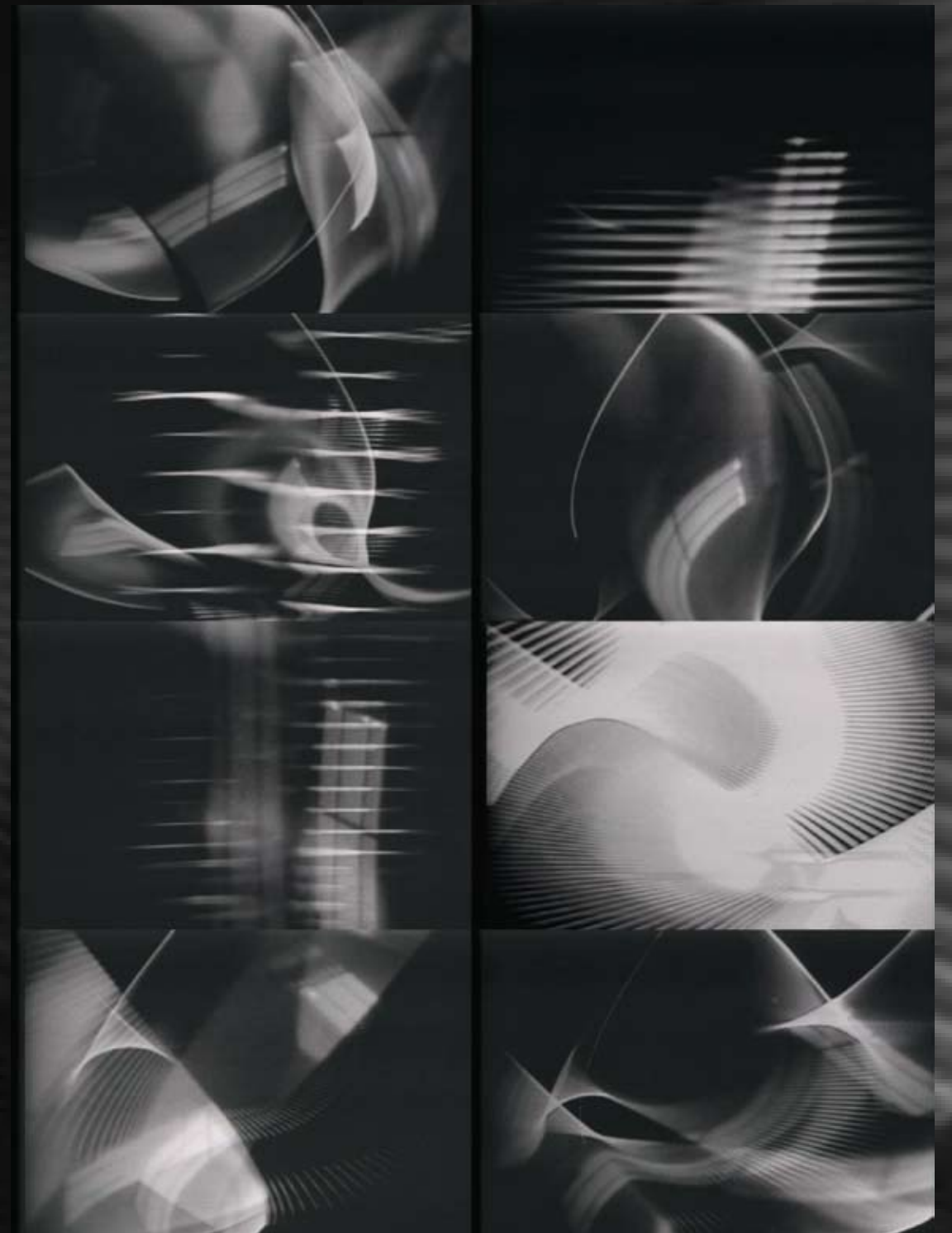


Zs. Gyenes: Relay. Audio-visual work of art, hybrid technique, 2021. (still)

“Lumage”

- everything wobbles (light–dark, day–night, life–death)
- relationships between sound and image is about expressivity, dynamics, and rhythm
- four million individual phosphor tracepoints on analog television screen at any given moment (Youngblood)
- directed electromagnetic field controls these light-trace-points
- electronic image has immateriality
- “prepared television” is equivalent to the prepared piano
- (semi-)random effects

- “Lumage” refers for light and special editing
- fixed version of a sound-generated (-reactive) analog video improvisation
- Pure Visual Music
- flicker of light
- ephemerality of images
- image yields sound, sound yields image, while the numeral value of the basic information is usually equal



Zs. Gyenes: Lumage. Still images from the audio-visual work of art, 2021.

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Thank you for the attention!