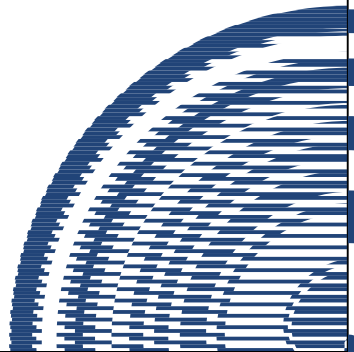
harte echtzeit

ji kū kan

時空間



»It occurred to me by intuition, and music was the driving force behind that intuition. My discovery was the result of musical perception.«

Albert Einstein

時空間

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Mastered by Pablo Miranda at La Isla Estudio, Barcelona

Liner notes by Sara Thiel

Graphic design by harte echtzeit

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All sounds are based on data of gravitational wave detections published by R. Abbott et al. (LIGO Scientific Collaboration & Virgo Collaboration), "Open data from the first and second observing runs of Advanced LIGO and Advanced Virgo", SoftwareX 13 (2021) 100658. (CC-BY-SA 4.0)

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side a

01_ fabric	08.15
02_ tide	06.47

side b

03_ duality	06.37
04_ superposition	08.58

Performed and recorded with tidal cycles and samples of gravitational wave detections.

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Destination is an illusion.
And there is no goal.

Right: I am on the move.
Aimlessly, always just away. Away
from the fusion of two giants.
Into the nowhere.
Carrying the message of this
giant explosion.

Audible, and yet unheard. Or not?

Knowing, there might be any soul.

From the sound left behind by the first ever recorded gravitational wave as it rushed through near-Earth spacetime, four musically pieces emerged that now travel behind this wave. This message from the collision of two black holes was named GW 150914 – scientifically sober, after its nature and our date. So it was in 2015 when a research facility called LIGO sensed and recognized the message.

2015: That was nine years ago.

Nine years – or as waves
call it: 85 trillion
kilometers. And people say:
To Sirius and a bit further.

Lacking a heart,
yet you can hear a beat.

Only in absolute silence. Not
longer than a heartbeat.

Earth, nudged by me.
The whole planet.
Lighthearted disturber.

Yielding minimal changes
in spacetime.

To make the sound of the first ever recorded gravitational wave more audible, researchers amplified it and shifted its frequency slightly. In the name of science. In the name of music, the sound now revolves around itself, repeats, can be reinvented, and played with. The sound of the wave acquires a rhythm, like a heartbeat.

It attains an earthly
existence, while the original
message never stopped to
visit Earth. It simply left
it behind, a memory in
spacetime.

Vaguely perceived.
On the journey.

In the_____ void.
Drifting through countless
encounters.

Gravitational waves are the results of cosmic events. They compress and stretch spacetime as they propagate through the vastness of the universe, originating from collisions or supernovae. These disturbances can only be detected with exceptionally large and extremely sensitive observatories, such as those in the USA, Germany, and Italy. The findings from their research are intended to help physicists shed light on the darkness of the cosmos. However, they can also bring peace to the minds of people who listen to them, allowing them to enjoy moments of universal silence while life relentlessly screams.