

# The Quantum Violin

**Werktitel:** The Quantum Violin

**Untertitel:** Mia Zabelka/Glen Hall

**KomponistIn:** [Zabelka Mia](#)

**Entstehungsjahr:** 2021

**Genre(s):** Neue Musik

**Gattung(en):** Ensemblesmusik Vokalmusik Elektronische Musik

**Besetzung:** Trio Solostimme(n) Duo

## **Besetzungsdetails:**

Violine (1, auch Voice, Noise, Electronics, Experiments & Alien Objects), Stimme (1), Elektronik (1, Quantum Oscillator, OMax, CataRT, Experiments & Mix)

## **Beschreibung**

"THE QUANTUM VIOLIN

Atomized, interpolated, reconfigured, mosaiced, cut up, transported to the sonic territories of quantum interactions, the musical collaboration of Austrian violinist and Canadian electroacoustic improviser Glen Hall bends the clock of real time music. It enters a realm of vibrational 'implants', phase vocoded reversals, spatialized architectures, and unforeseen happenstances. The Quantum Violin is not a collection of academic violin exercises, it is a virtuoso escape hatch out of our imaginations' 'box'. Mia Zabelka's violin exists as the centre of a quantum sound galaxy.

The Quantum Violin #1 has a sub-structure formed by sounds generated by a Quantum Oscillator that are audible throughout the piece. It was programmed with 8 different sets of parameters, giving the 'drone' a slowly varying texture. This sub-structure was created to signify physical reality's undergirding in the quantum realm, a constant vibrational 'hum'. Mia Zabelka's violin was given 3 'treatments' within this sonic landscape. Two treatments were done by IRCAM's artificial intelligence software, OMax, which segmented and recombined the violin's performances to coincide with movements in the video by Conny Zenk, which forms the visual aspect of the quantum world: geometric and vibrating. The third treatment is to 'quantize' the violin's sound into the microsound sphere using IRCAM's CataRT, that segmented it into sonic 'quanta', tiny grains 0.071

milliseconds, to produce minute clicks, representing the smallest sonic events possible, while still remaining audible... [weitelesen](#) "

Werkbeschreibung, bandcamp.com, abgerufen am 19.09.2024 [

<https://miazabelka.bandcamp.com/album/the-quantum-violin>]

### **Abschnitte/Sätze**

The Quantum Violin #1 | The Quantum Violin #2 | The Quantum Violin #3 | The Quantum Violin #4 | The Quantum Violin #5 | The Quantum Violin #6 | The Quantum Violin #7 | The Quantum Violin #8 | The Quantum Violin #9 | The Quantum Violin #10 | The Quantum Violin #11 | The Quantum Violin #12 | The Quantum Violin #13 | The Quantum Violin #14 - For Pauline Oliveros

### **Aufnahme**

**Titel:** [The Quantum Violin](#)

**Label:** *bandcamp* (Digital Album, CD)

**Jahr:** 2021

**Mitwirkende:** Mia Zabelka (Violin, Voice, Noise, Electronics, Experiments & Alien Objects), Glen Hall (Quantum Oscillator, OMax, CataRT, Experiments & Mix), Kenji Siratori (Stimme)