

QUANTUM
SOUND S
SYMPOSIUM

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JUNE
2023

6 June

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- 9:00-9:30 Registration
- 9:30-9:35 Quick welcoming words by Reiko Yamada and Maciej Lewenstein
- 9:35-11:00** **Lecture-Concert “Tensorial Ripples”**
Eduardo Reck Miranda, Paulo Itaboraí, and Cephias Teom (University of Plymouth)
Auditorium, ICFO
- 11:00-11:20 Coffee and Snack Break
- 11:20-12:10** **Panel Discussion #1 “Quantum Sounds? What are they?”**
Mónica Bello (Arts-CERN), Anna Sanpera (UAB), Andrés Lewin-Richter (UPF-Phonos)
Nest Hall, ICFO
- 12:20-13:20 Symposium Lunch
- 13:20-14:20** **Lecture-Concert “Iannis Xenakis: Random Walks in Sound and Music”**
James Harley (University of Guelph) and Marcin Hałat (violinist)
Auditorium, ICFO
- 14:20-14:40 Coffee Break
- 14:40-15:30** **Panel Discussion #2 “Photons, Vibrations and Space”**
Antoine Reserbat-Plantey (CNRS-Chrea), Voldemārs Johansons (Sound Artist) and Yu Bi (qurv.tech)
Nest Hall, ICFO
- 15:30-16:40** **Lecture-Concert “Reflections of the Quantum Realm: Superconducting Qubits and Variable Quantum Oscillator Design for Music Synthesis”**
Spencer Topel (Physical Synthesis) and Florian Carle (Yale Quantum Institute)
Auditorium, ICFO
- 16:40-17:00 Coffee and Snack Break
- 17:00-17:45** **Talk-demonstration “Quantum-compositionality enabled music composition”**
Bob Coecke (Quantinuum)
Auditorium, ICFO

10:00-11:00

Lecture-Concert “Composing with classical and quantum harmonic oscillators”
Rodney DuPlessis (Worcester Polytechnic Institute)

11:00-11:25

Coffee and Snack Break

11:25-12:25

Lecture-Concert “Interpreting Quantum Randomness, Studies on Wigner Function”
Reiko Yamada, Eloy Pinol, Samuele Grandi (ICFO), Maciej Lewenstein (ICFO-ICREA), and Flying Trees String Quartet
Auditorium, ICFO

14:30-15:30

Lecture-Concert “LightMatrix: A Light-Sensitive Musical Control Interface”
Eli Fieldsteel (Experimental Music Studios, University of Illinois)
Auditorium, ICFO

15:30-15:50

Coffee and Snack Break

15:50-16:40

Panel Discussion #3 “Music and Quantum Computing”
Leticia Tarruell (ICFO), Jose Manuel Berenguer (UB), Maciej Lewenstein (ICFO-ICREA)
Nest Hall, ICFO

16:50-17:50

Lecture-Concert “Hilbert Space Deep House - Composing Electronic Dance Music with quantum states”
James Weaver and Brian Ingmanson (IBM)

June 7

June

8

10:30-11:30

Round Table Discussion 1: Quantum future in the field of arts and humanities

Spencer Topel (Physical Synthesis), Eoin Phillips (La Salle-URL), Artur Garcia Saez (BSC-CNS)
La Salle, Ramon Llull University

11:30-11:50

Coffee break

11:50-12:50

Round Table Discussion 2: Quantum Computers and Creativity

James Weaver (IBM), Rosa María Alsina (La Salle-URL), Eduardo Reck Miranda (University of Plymouth)
La Salle, Ramon Llull University

13:00-14:00

**Visits to Anechoic and Reverberant Chambers
Sound Performance "Resonant Spaces"**

Mathias Klenner (UB) and Carmen Julia Martinez Suquia (La Salle-URL)

19:00-19:30

Joint Lecture "Looped in the Sound of Photon"

Ángel Faraldo (composer, performer) and Carlos Abellan (QUSIDE)
Hangar.org

19:30-21:00

**Quantum Random Number Generator
Improvisation Concert**

Ángel Faraldo, James Harley, Rodney DuPlessis, Voldemārs Johansons, Cephas Teom, Spencer Topel, María Aguado Yáñez, Reiko Yamada (performers), Jose Manuel Berenguer (sound diffusion)
Generator technician: Jose Ramon Martinez (QUSIDE)
Hangar.org

1800-20:00

SuperCollider Workshop

Eli Fieldsteel (Experimental Music Studios, University of Illinois)
Toplap Barcelona

9 June



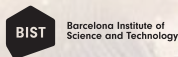
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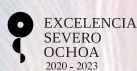
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