Session Program

15–19 Apr 2024

Foundations of Quantum Physics beyond Bell: Celebrating 60 years of Bell's theorem

Talks

Monday 15 April

14:30

Talks: Session 1.1

Session

14:30–15:15 **"Impossible measurements"**

Speaker
Nicolas Gisin

15:15

15:15

Talks: Session 1.2

Session

15:15–16:00 **Measurement in quantum field theory**

Speaker
Prof. Chris Fewster

16:00–16:45 **Impossible measurements revisited**

Speaker
Leron Borsten

16:45

17:15

Talks: Session 1.3

Session

17:15–18:00 **Causality in QFT measurements: the scattering paradigm and beyond**

Speaker
Maria Eftychia Papageorgiou

18:00–18:45 **TBA**

Speaker
Valentino Jadrisko

18:45

Tuesday 16 April

09:30

Talks: Session 2.1

Session

09:30–10:15 **Turing, Wigner, Bell: the high frontier for experimental metaphysics**

Speaker
Howard Wiseman

10:15–11:00 **Localization of events in classical and non-classical spacetimes**

Speaker
Prof. Caslav Brukner

11:00

11:30

Talks: Session 2.2

Session

11:30–12:15 **Wigner's friend's perception and the no-signaling principle**

Speaker
Dr Veronika Baumann

12:15

16:00

Talks: Session 3.1

Session

16:00–16:45 **Bell’s theorem and the scientists who worked on it.**

Speaker
Olival Freire

16:45

17:15

Talks: Session 3.2

Session

17:15–18:00 **Non-locality, Preferred Foliations, and Emergent Relativity**

Speaker
Prof. Tim Maudlin

18:00–18:45 **John S. Bell Natural Philosopher**

Speaker
Prof. Federico Laudisa

18:45

Wednesday 17 April

09:30

Talks: Session 4.1

Session

09:30–10:15 **Bell's theorem, randomness and secrecy.**

Speaker
Prof. Antonio Acín

10:15–11:00 **Experimental quantum key distribution certified by Bell’s theorem**

Speaker
Prof. Nicolas Sangouard

11:00

20:30

Talks: Session 4.2

Session

20:30–21:15 **Quantum Network Correlations**

Speaker
Prof. Otfried Gühne

21:15–21:45 **The Elegant Joint Measurement is Nonlocal in the Triangle Network**

Speaker
Victor Gitton

21:45

Thursday 18 April

09:30

Talks: Session 5.2

Session

09:30–10:15

Quantum systems as gravitational sources: theory-independent and theory-specific predictions on the nature of gravity

Speaker
Dr Flaminia Giacomini

10:15–11:00 **Could Einstein have been right after all?**

Speaker
Gilles Brassard

11:00

11:30

Talks: Session 5.1

Session

11:30–12:15 **A problem with Many Worlds**

Speaker
Renato Renner

12:15

16:00

Talks: Session 6.1

Session

16:00–16:45 **MEH**

Speaker
Prof. Marcus Huber

16:45

17:15

Talks: Session 6.2

Session

17:15–18:00 **Quantum measurements from the second law of thermodynamics**

Speaker
Dr Maximilian Lock

18:00–18:45 **TBA**

Speaker
Prof. Sandu Popescu

18:45

Friday 19 April

09:30

Talks: Session 7.2

Session

09:30–10:15 **Locality and quantum particle statistics**

Speaker
Prof. Borivoje Dakic

10:15–11:00 **Monogamy relations for relativistically causal correlations**

Speaker
Dr Mirjam Weilenmann

11:00

11:30

Talks: Session 7.1

Session

11:30–12:15 **Imprecise measurements in entanglement and steering tests**

Speaker
Prof. Armin Tavakoli

12:15