PROGRAMME

The Sixth Poznań Symposium on

Quantum Information and Quantum Technologies

QIQTec 2024

10th (Friday) - 13th (Monday) May 2024
at the Physics Faculty, Adam Mickiewicz University (UAM), Poznań, Poland

PROGRAMME

Friday sessions, 10 May 2024

venue: Prof. Kielich Auditorium

8:15-8:50
MORNING COFFEE
8:50-9:00
Adam Miranowicz: Symposium Opening and Welcome Note

Session I -- chairman: Prof. Zbigniew Ficek

9:00-9:20
Huan-Yu Ku: Measurement incompatibility cannot be distilled (invited talk)
9:20-9:40
Po-Chen Kuo: Non-Markovian skin effect (invited talk)
9:40-10:00
Jhen-Dong Lin: Non-Markovian quantum exceptional points (invited talk)
10:00-10:20
Karol Bartkiewicz: Experimental exploration of Liouvillian exceptional points on a quantum computer
10:20-10:40
Arnab Laha: Speciality optical waveguide systems exhibiting conjugate exceptional points
10:40-11:00
Kacper Wrześniewski: Dynamics and cross-correlations in quantum dot-Majorana wire systems
11:00-11:30
COFFEE BREAK

Session II -- chairman: Prof. Ryszard Tanaś

11:30-11:50
Wiesław Leoński: Two-mode entangled bosonic system and Legget-Garg inequality (invited talk)
11:50-12:10
Zbigniew Ficek: Controlled generation of coherence and entanglement in a three-mode system (invited talk)
12:10-12:30
Artur Barasiński: Efficient and Reliable Detection of Nonlocal Quantum Correlations via Random Measurements (invited talk)
12:30-12:50
Kuan-Yi Lee: Unveiling quantum steering by quantum-classical uncertainty complementarity
12:50-13:10
Javid Naikoo: Enhancing quantum sensors by capitalising on dynamical instabilities
13:10-14:15
LUNCH

Session III -- chairman: Prof. Adam Miranowicz

14:15-15:15
Franco Nori: Quantum Nonlinear Optics without Photons, how to excite two or more atoms simultaneously with a single photon, and other unusual properties of ultra-strongly-coupled QED systems. (keynote speaker talk)

Monday sessions, 13 May 2024

venue: Sala Rady Wydziału (Room 16)

8:30-9:00
MORNING COFFEE

Session IV -- chairman: Prof. Paweł Kurzyński

9:00-9:20
Ireneusz Weymann: Kondo cloud in superconductors
9:20-9:40

Anna Kowalewska-Kudłaszyk: On some examples of blocking photons and phonons

9:40-10:00

Grzegorz Chimczak: Good two-photon blockade displayed in the presence of a cloud of emitters

10:00-10:20

Yi-Te Huang: An efficient Julia framework for hierarchical equations of motion in open quantum systems

10:20-10:40

Jędrzej Stempin: Exploring position-dependent quantum random walks

10:40-11:00

Patrycja Tulewicz: Advancing generative machine learning with quantum computing

11:00-11:30

COFFEE BREAK

Session V -- chairman: Prof. Huan-Yu Ku

11:30-11:50

Andrzej Grudka: Superluminal observers and quantum superpositions

11:50-12:10

Paweł Kurzyński: Non-classicality primitive in a quasi-probabilistic toy model

12:10-12:30

Jan Wójcik: Electrically coupled optomechanical cavities as a tool for quantum nondemolition measurement

12:30-12:50

Marcin Karczewski: Heralded entanglement generation with indistinguishable particles

12:50-13:10

Ravindra Chhajlany: Artificial quantum matter under control: from excitons to atoms

13:10-13:15

Adam Miranowicz: Closure of Regular Sessions

13:15-14:15

LUNCH

Satellite talk in the series Stanislaw Ulam's Lectures

Chairman: Prof. Michał Banaszak

16:00-17:00

Franco Nori: Artificial neural networks and Machine Learning applied to Quantum Physics

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