

Session Program

17-29 Aug 2017



6th International Conference on New Frontiers in Physics (ICNFP2017)

Workshop on continuous variables and quantum information

Monday 21 August

11:00

Workshop on continuous variables and quantum information: Session 2

Session | **Location:** Room 2 | **Convener:** Natalia Korolkova

11:00–11:30 **Phase supersensitivity in an unbalanced SU(1,1) interferometer**

Speaker

Dr Maria Chekhova

11:30–12:00 **Squeezed light enhanced sensing of a micro-mechanical oscillator**

Speaker

Prof. U L Andersen

12:00–12:30 **Highly nonlinear quantum optics and optomechanics**

Speaker

Prof. Radim Filip

12:30–13:00

From Quantum-Limited Measurements towards Quantum Squeezing Detection over Satellite Links

Speaker

Dr Christian Ralf Müller

13:30

15:00

Workshop on continuous variables and quantum information

Session | **Location:** Room 2 | **Convener:** Natalia Korolkova

15:00–15:20

Dynamics of quantum correlations in two-mode Gaussian open quantum systems

Speaker

Aurelian Isar

15:20–15:40

Gaussian quantum steering of two bosonic modes in a squeezed thermal environment

Speaker

Mihaescu Tatiana

16:00

16:30

Workshop on continuous variables and quantum information

Session | **Location:** Room 2 | **Convener:** Natalia Korolkova

16:30–17:00 **Gaussian intrinsic entanglement**

Speaker

Mr Ladislav Mišta

17:00–17:30 **Relativistic and Device Independent Verifiable Quantum Computation**

Speaker

Dr Petros Wallden

17:30-17:50

Gigahertz quantum signatures compatible with telecommunication technologies

Speaker

Matthew Thornton

17:50-18:10

Quantum advantage and fault tolerant universal quantum computing in continuous variables

Speaker

Tom Douce

18:30

Tuesday 22 August

11:00

Workshop on continuous variables and quantum information

Session | **Location:** Room 2 | **Convener:** Ulrik Lund Andersen

11:00–11:30

Quantum Frequency Combs: generation, characterization and applications

Speaker

Prof. Claude Fabre

11:30–12:00

Continuous quantum variables: from quantum computing to relativistic quantum information

Speaker

Nicolas Menicucci

12:00–12:30

Work is the source of gravity

Speaker

David Edward Bruschi

12:30–13:00

Tripartite continuous-variables coherence and entanglement from vacuum fluctuations

Speaker

Dr Sorin Paraoanu

13:30

15:00

Workshop on continuous variables and quantum information

Session | **Location:** Room 2 | **Convener:** lorenzo maccone

15:20–15:40

Ultrafast Quantum Key Distribution with Ultra-Broad Squeezed Light

Speaker

Prof. Avi Pe'er

15:40–16:00

Observing superradiance in a vortex flow

Speaker

Mr Théo Torres Vicente

16:00

16:30

Workshop on continuous variables and quantum information

Session | **Location:** Room 2 | **Convener:** Friedrich Koenig

16:30–17:00

Counting Unruh particles

Speaker

Prof. Andrzej Dragan

17:00–17:20

Mixing of positive and negative frequency waves at the optical horizon

Speaker

Dr Maxime Jacquet

17:20-17:40

Autonomous quantum machines and finite sized clocks

Speaker

Woods Mischa

17:40-18:10

Quantum networks: topology and spectral characterization

Speaker

Vesna Berec

18:10