

Session Program

4-12 Jul 2018



7th International Conference on New Frontiers in Physics (ICNFP2018)

Parallel Section C Quantum Physics

Tuesday 10 July

15:00

Parallel Section C Quantum Physics

Session | Location: Room 5

15:00-15:30

The influence of spacetime curvature on spontaneous emission in optical analogues to gravity

Speaker

Maxime Jacquet

16:00

Wednesday 11 July

11:00

Parallel Section C Quantum Physics

Session | Location: Room 4

11:00-11:30

A tighter steering criterion using the Robertson-Schrödinger uncertainty relation

Speaker

Mr Souradeep Sasmal

11:30-12:00

Quantum measurements in finite space-time domain

Speaker

Vladimir Shevchenko

12:00-12:30

Spin transfer and entanglement in Compton scattering

Speaker

Prof. Sven Ahrens

12:30-13:00

FPGA implementation of quantum cryptography algorithm

Speaker

Ikram Jaouadi

13:00-13:30

Quantum dynamics of charged fermions in the Wigner formulation of quantum mechanics

Speaker

Prof. Vladimir Filinov

13:30

15:00

Parallel Section C Quantum Physics

Session | Location: Room 4

15:20-15:40

Evidence of large-scale quantization constant in plasmas

Speaker

George Livadiotis

15:40-16:00

Table-top high-energy quantum physics

Speaker

Prof. Thiago Guerreiro

16:00

16:30

Parallel Section C Quantum Physics

Session | Location: Room 3

16:30-17:00

Gravitational deflection of X-ray superradiance

Speaker

Prof. Sven Ahrens

18:30

16:30

Parallel Section C Quantum Physics

Session | Location: Room 4

16:30-17:00 **Relativistic electron vortices beyond the paraxial approximation**

Speaker

Dr Dmitry Karlovets

17:00-17:30 **Identification of malfunctioning quantum devices**

Speaker

Dr Michalis Skotiniotis

17:30

Thursday 12 July

11:00

Parallel Section C Quantum Physics

Session | Location: Room 4

11:30-12:00 **On Formalism and Interpretations**

Speaker

Ms Veronika Baumann

12:00-12:30 **Using the Quantum Pigeonhole Paradox to Study Joint Measurements**

Speaker

Mr Noah Lupu-Gladstein

12:30-13:00

An authentication protocol based on polygamous nature of quantum steering

Speaker

Dr Debasis Mondal

13:00-13:30

An explicit local statistical model of hidden variables for the Bell's polarization states

Speaker

Dr David Oaknin

13:30

15:00

Parallel Section C Quantum Physics

Session | Location: Room 4

15:00-15:30

CaloCube: a new approach to calorimetry in space based experiments for high-energy cosmic rays.

Speaker

Dr Gabriele Bigongiari

15:30