Open Quantum Systems: From atomic nuclei to ultracold atoms and quantum optics

Report of Contributions

https://indico.ectstar.eu/e/Open_Quantum_Systems

Contribution ID: **1** Type: **not specified**

Registration

Monday 30 September 2019 08:30 (30 minutes)

Contribution ID: **2** Type: **not specified**

Introduction

Monday 30 September 2019 09:00 (30 minutes)

Contribution ID: **3** Type: **not specified**

Giant Resonances in Highly Excited Nuclei - PrimeExamples for Various Decay Modes of Open Quantum Systems

Monday 30 September 2019 09:30 (50 minutes)

Presenter: Prof. RICHTER, Achim (TU Darmstadt)

Contribution ID: **4** Type: **not specified**

Juggling with single atoms to understand many body systems

Monday 30 September 2019 10:50 (50 minutes)

Presenter: Prof. JOCHIM, Selim (U Heidelberg)

Contribution ID: **5** Type: **not specified**

Changing decay mode with excitation energy for two-proton decay

Monday 30 September 2019 14:00 (50 minutes)

Presenter: Dr BROWN, Kyle (MSU)

Contribution ID: **6** Type: **not specified**

Coherent and chaotic dynamics of open quantum systems

Monday 30 September 2019 15:20 (50 minutes)

Presenter: Prof. VOLYA, Alexander (FSU)

Contribution ID: **7** Type: **not specified**

Influence functional approaches to quantum and classical open systems

Monday 30 September 2019 16:10 (50 minutes)

Presenter: Dr MCCAUL, Gerard (Tulane U)

Contribution ID: **8** Type: **not specified**

Superconducting circuits as testbeds for atomic physics and quantum optics

Tuesday 1 October 2019 09:30 (50 minutes)

Presenter: Prof. ANKERHOLD, Joachim (Ulm U)

Contribution ID: **9** Type: **not specified**

Toward the understanding of near-threshold collectivity

Tuesday 1 October 2019 10:50 (50 minutes)

Presenter: Dr PLOSZAJCZAK, Marek (GANIL)

Contribution ID: **10** Type: **not specified**

Nuclear Astrophysics experiment with Trojan Horse Method

Tuesday 1 October 2019 14:00 (50 minutes)

Presenter: Dr GUARDO, Giovanni Luca (INFN-LNS)

Contribution ID: **11** Type: **not specified**

Description of few-nucleon systems by solving Faddeev-Yakubovsky equation

Tuesday 1 October 2019 15:20 (50 minutes)

Presenter: Dr LAZAUSKAS, Rimantas (CNRS Strasbourg)

Contribution ID: **12** Type: **not specified**

Open effective field theories and universalit

Tuesday 1 October 2019 16:10 (50 minutes)

Presenter: Prof. HAMMER, Hans-Werner (TU Darmstadt)

Contribution ID: **13** Type: **not specified**

From correlations to universality

Wednesday 2 October 2019 09:30 (50 minutes)

Presenter: Dr KIEVSKY, Alejandro (INFN Pisa)

Contribution ID: **14** Type: **not specified**

Small helium clusters studied by Coulomb explosion imaging

Wednesday 2 October 2019 10:50 (50 minutes)

Presenter: Dr KUNITSKI , Maksim (Goethe-Universität Frankfurt Am Main)

Contribution ID: **15** Type: **not specified**

Topological framework for directional amplification in one-dimensional coupled cavity arrays

Wednesday 2 October 2019 14:00 (50 minutes)

Presenter: Mrs WANJURA , Clara (University Of Cambridge)

Contribution ID: **16** Type: **not specified**

Nuclear scattering and reactions from ab initio no-core shell model with continuum

Wednesday 2 October 2019 15:20 (50 minutes)

Presenter: Dr NAVRATIL, Petr (TRIUMF)

Contribution ID: **17** Type: **not specified**

Quantum computing of nuclear dynamics

Wednesday 2 October 2019 16:10 (50 minutes)

Presenter: Prof. PEDERIVA, Francesco (Trento University)

Contribution ID: **18** Type: **not specified**

Hawking radiation and the inverted Harmonic oscillator

Presenter: Prof. SCHLEICH, Wolfgang (Ulm University)

Contribution ID: **19** Type: **not specified**

A single atom and the radiation field of free space – an experimental study

Thursday 3 October 2019 10:50 (50 minutes)

Presenter: Prof. LEUCHS, Gerd (Max Planck Institute For The Science Of Light)

Contribution ID: **20** Type: **not specified**

Low energy n scattering on light nuclei and 19B as a 17B-n-n three-body system close to unitary limit

Thursday 3 October 2019 14:00 (50 minutes)

Presenter: Dr CARBONELL , Jaume (CNRS/IPN Orsay)

Contribution ID: **21** Type: **not specified**

Toward an in-medium effective field theory for the nuclear shell model

Thursday 3 October 2019 15:20 (50 minutes)

Presenter: Dr FOSSEZ, Kevin (MSU)

Contribution ID: **22** Type: **not specified**

Mixed Quantum-Classical Nonrelativistic open quantum systems: a field theoretic approach

Thursday 3 October 2019 16:10 (50 minutes)

Presenter: Prof. FACCIOLI, Pietro (Trento University)

Contribution ID: **23** Type: **not specified**

The Quantum Cheshire Cat effect: Can properties of quantum systems be delocalized?

Friday 4 October 2019 09:30 (50 minutes)

Presenter: Prof. MATZKIN, Alexandre (CNRS)

Contribution ID: **24** Type: **not specified**

TBA

Presenter: Mr ZIMMERMANN, Matthias (Ulm University)

Contribution ID: **25** Type: **not specified**

Applying Open Quantum Systems Techniques to Density Matrix Minimization

Friday 4 October 2019 10:50 (50 minutes)

Presenter: Mr LEAMER, Jacob (Tulane University)