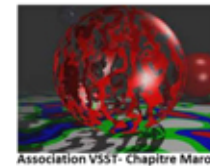


THE 2ND EDITION OF INTERNATIONAL WORKSHOP ON QUANTUM INFORMATION & QUANTUM ELECTRONICS



Organized by:





THE 2ND EDITION OF INTERNATIONAL WORKSHOP ON QUANTUM INFORMATION & QUANTUM ELECTRONICS

September, 20th and 21st, 2018 in Al-Hoceima, Morocco

International Workshop **QIQE'2018** is the 2nd edition of the first successful **International Workshop on Cybe Crimnality and Quantum Information** organized by **VSST**. It will focus on physical and theoretical aspects of quantum information and quantum electronics. The workshop will be held at FSTH with the aim to provide the platform to meet academic scientists, researchers and young scientists to exchange and share their ideas and discuss the experiences and research results about all aspects of Quantum Information Theory.

The Workshop aims at covering all scientific activities in Quantum Information, with an inter-disciplinary approach. The covered topics range from quantum communications to quantum electronics. The goal of this workshop is to bring together researchers interested in theoretic developments and applications of quantum information. Researchers from these areas are encouraged to submit a paper to present their works related to the following topics.

Organized by : FSTH, ICTP, VSST

Honorary committee :

Pr. Houdaifa AMEZIANE, President of Abdelmalek Essaadi University, Tetouan

Pr. Taoufik MOURABIT, Dean of the Faculty of Science and Techniques Al Hoceima

Invited Speakers :

Pr. Jean-Pierre GAZEAU, Université Paris Diderot, Paris

Pr. Yassine HASSOUNI, Faculty of Sciences, Rabat

Pr. Nasser METWALLY, Math. Dept. Faculty of Sciences, South Valley University, Aswan, Egypt

Pr. Morad ELBAZ, Faculty of Sciences, Rabat

Pr. Adil BELHAJ, Sultan Moulay Slimane University, Beni Mellal

Pr. Houssein GHALEB, Faculty of Sciences, Rabat

Pr. NABIL HABIBALLAH, Faculty of Applied Sciences, Ibn Zohr University

Pr. Elyamani DIAF, Multidisciplinary Faculty Nador

Local organizing committee:

Pr. A. EL ALLATI, FSTH

Pr. N. EL ACKCHIOUI, FTSH

Pr. F. FALYOUNI, FTSH

Pr. M. BOJADDAYNI, FSTH

Scientific committee:

Pr. A. EL HADDADI, ENSAH

Pr. M. ADDAM, ENSAH

Pr. A. EL ALLATI, FSTH

Pr. N. EL ACKCHIOUI, FTSH

Pr. F. FALYOUNI, FTSH

Pr. M. BOJADDAYNI, FSTH

Pr. A. FAIZE, FPN



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Thursday, September, 20th, 2018

08h30 – 09h00	Opening speech: T. MOURABIT, Y. HASSOUNI, A. EL ALLATI, A. EL HADDADI
09h00 – 10h00	J.P. Gazeau, U.P.D., Un formalisme quantique « jouet »
10h00 – 10h30	Welcome Cocktail
10h30 – 11h15	N. METWALLY, S.V.U.A., Accelerated systems and some applications
11h15 – 11h45	M. EL BAZ, FSR, Classical information security against quantum algorithms
11h45 – 12h10	H. AMELLAL, FSR, Classical information security against quantum algorithms
12h10 – 12h30	Y. FIGUIGUI, FSTH, Une esquisse sur le traitement d'image quantique
12h30 – 14h30	Lunch Break
14h30 – 14h55	N. HABIBALLAH, FSA, Local quantum uncertainty in XYZ Heisenberg spin models with Dzyaloshinski-Moriya interaction
14h55 – 15h20	K. EI ANOUZ, FSTH, La dynamique des systèmes quantiques ouverts
15h20 – 15h40	Coffee Break
15h40 – 16h05	Z. MZAOUALI, FSR, A Quantum Information Approach to Quantum Phase Transitions in Spin Models
16h05 – 16h30	Y. KHOUJA, FSR, Génération des état hybrides par MZI



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Friday, September, 21st, 2018

09h00 – 10h00	J.P. GAZEAU, U.P.D., Etats cohérents en optique quantique
10h00 – 11h00	N. METWALLY, S.V.U.A., Fisher information of accelerated and non-accelerated systems
11h00 – 11h30	Coffee Break
11h30 – 12h00	A. BELHAJ, FPB,
12h00 – 12h30	A. E AROUI, FSA, Supercorrelations in Heisenberg Systems
12h30 – 15h00	Lunch Break
15h00 – 15h25	N. BENAYA, FSTH, Analysis of fluidification of stochastic petri net
15h25 – 15h50	K. EL HAWARY, FSR,
15h50 – 16h15	Coffee Break
16h15 – 16h40	N. MANSOURA & E. DIAF, FPN, String theory in the Nambu-Goto Formalism and Noncommutative geometry
16h40 – 17h05	F.Z. SIYOURI, FSR, Markovian and non-Markovian dynamics of general quantum correlations