

4<sup>th</sup> International Conference on

# ASTROPHYSICS AND PARTICLE PHYSICS

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December 03-05, 2018 | Chicago, USA

# Day 1 December 03, 2018

## Conference Hall

09:00-09:30 Registrations

09:30-09:55 Opening Ceremony

### Keynote Forum

09:55-10:00 Introduction

**Title: Photodynamics: How massive photons, gravitons, gluons, and neutrinos manage to travel at the speed of light**

10:00-10:45

**Robert J Martineau**, NASA Goddard Space Flight Center, USA

Panel Discussion 10:45-10:50

Networking & Refreshment Break 10:50-11:10

11:10-11:55

**Title: Hamiltonian analysis of stability and classification of multidimensional nonlinear wave structures of soliton type in space plasma**

**Vasily Yu Belashov**, Kazan Federal University, Russia

11:55-12:40

**Title: High spatial observations of protoplanetary disks review**

**Eiji Akiyama**, Hokkaido University, Japan

Panel Discussion 12:40-12:45

Group Photo 12:45-12:55

Lunch Break 12:55-13:55

Plenary Talk

13:55-14:55

**Title: Supreme theory of everything**

**Ulaanbaatar Tarzad**, Mongolian University of Science and Technology, Mongolia

Sessions: Astrophysics and Space Science | Particle Physics | Gravitational Physics

Session Chair: Eiji Akiyama, Hokkaido University, Japan

Session Co-chair: Ulaanbaatar Tarzad, Mongolian University of Science and Technology, Mongolia

Session Introduction

14:55-15:25

**Title: An introduction to temporal wave mechanics**

**Kenneth M Rauen**, Rainforest Reactor Research, USA

15:25-15:55

**Title: Molecular astrophysics: Formation and interaction of molecules and new approach: Deep Learning (AI) in astronomy**

**Hakima Mokrane**, Expaceo, France

Panel Discussion 15:55-16:00

Networking & Refreshment Break 16:00-16:20

16:20-16:50

**Title: Dimensional model for predicting particle physics**

**Gregory Friedlander**, USA

16:50-17:20

**Title: Numerical modeling for episodic thermal convection in enceladus ice shell**

**Mariana C Villamil Sastre**, Universidad de los Andes, Colombia

17:20-17:50

**Title: Mergers of compact objects concordant with gravitational-wave events**

**Hirromichi Tagawa**, Eotvos University, Hungary

Panel Discussion 17:50-17:55

## Day 2 December 04, 2018

### Conference Hall

#### Keynote Forum

**09:45-10:30** **Title: Cosmic matter creation from viscous energy dissipation as a resurrection of Hoyle's dream**

**Hans J Fahr**, University of Bonn, Germany

#### Panel Discussion 10:30- 10:35

#### Networking & Refreshment Break 10:35-10:55

**10:55-11:40** **Title: Investigation in determining the value of perturbation to enter in to the threshold of modified Korteweg-de-Vries(mKdV) solitons in plasma as means of continuum hypothesis from the regime of discrete KdV solitons**

**Bhaben Chandra Kalita**, Cotton University, India

**11:40-12:25** **Title: Evolution of the universe: The silent bang**

**Ghassan Halasa**, University of Jordan, Jordan

**12:25-13:10** **Title: Astroparticles: Their detection and crucial role in XXI century science**

**Eduardo de la Fuente**, Universidad de Guadalajara & Mars Society, Mexico

#### Panel Discussion 13:10-13:15

#### Lunch Break 13:15-14:15

#### Workshop

**14:15-15:00** **Title: Interaction of the multidimensional NLS solitons in non-uniform and nonstationary medium: Modeling and stability problem**

**Vasily Yu Belashov**, Kazan Federal University, Russia

#### Sessions: Dark Matter and Dark Energy | High Energy Physics

**Session Chair: Ghassan Halasa**, University of Jordan, Jordan

**Session Co-Chair: Bhaben Chandra Kalita**, Cotton University, India

#### Session Introduction

**15:00-15:30** **Title: Geometric chronons can be viewed as the building blocks of a quantum theory instead of particles**

**Eytan Suchard**, Metivity, USA

**15:30-16:00** **Title: Study of the pT-distributions of secondary charged particles produced in d<sup>12</sup>C interactions at 4.2 A GeV/c**

**Z Wazir**, International Islamic University Islamabad, Pakistan

#### Panel Discussion 16:00-16:05

#### Networking & Refreshment Break 16:05-16:25

**16:25-16:55** **Title: Application of a dimensional model for describing black holes, dark energy and the appearance of fibonnaci curves in space**

**Gregory Friedlander**, USA

**16:55-17:25** **Title: Dielectical omni diminesions and directions of quantum radiant particles of monistic substance**

**Chidiebere Anigbo**, Institute of Technology and management, Nigeria

Panel Discussion 17:25-17:30

Poster Presentation 17:30-18:00

17:30-17:45 **Title: Subspace approximations to the Fokker-Planck Equation**  
Jordan Lasuik, University of Manitoba, Canada

17:45-18:00 **Title: Electron-impact excitation and recombination of molecular cations in edge fusion plasma: Application to  $H_2^+$  and  $BeD^+$**   
Nicolina Pop, University Timisoara, Romania

Panel Discussion 18:00-18:05

## Day 3 December 05, 2018

### Conference Hall:

#### Keynote Forum

09:45-10:30 **Title: Mass reservoirs, black holes, dark matter in the early universe**  
Yu-QingLou, Tsinghua University, China

Panel Discussion 10:30- 10:35

Networking & Refreshment Break 10:35-10:55

10:55-11:40 **Title: The Computational Unified Field Theory's (CUFT) paradigmatic shift in 21<sup>st</sup> century physics**  
Jehonathan Bentwich, Brain Perfection LTD, Israel

#### Plenary Talk

11:40-12:40 **Title: Critical parameters at interaction of vortical structures in a fluid**  
Vasily Yu Belashov, Kazan Federal University, Russia

Panel Discussion 12:40-12:45

Lunch Break 12:45-13:45

#### Workshop

13:45-15:45 **Title: Temporal wave mechanics question & answer workshop**  
Kenneth M Raven, Rainforest Reactor Research, USA

Panel Discussion 15:45-15:50

Networking & Refreshment Break 15:50-16:10

#### Video Presentations

16:10-16:30 **Title: Gravity and light repel each other**  
Iraj Khalilymoghadam, Iran

16:30-16:50 **Title: A contradiction for law of energy conservation**  
M Yusefzad, Amirkabir University of technology, Iran

Panel Discussion 16:50-16:55

Thanks Giving & Closing Ceremony