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885th Conference

Scientific Program

International Conference on

Astrophysics and Particle Physics

December 08-10, 2016 Dallas, Texas, USA



Conference Venue

Embassy Suites by Hilton Dallas Park Central Area

13131 North Central Expressway, Dallas, Texas, 75243, USA, Phone: +1 972-234-3300

Hosting Organization: Conference Series LLC

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Day 1 December 08, 2016

08:00-08:30 Registrations

Plano - Richardson (A)

conferenceseries.com **08:30-08:55** Opening Ceremony

Keynote Forum

08:55-09:00 Introduction

09:00-09:30 Title: The planet Earth
Edwin Zong, Laser Neutrino Annihilation Synergistic Applicator LLC, USA

09:30-10:00 Title: Numerical Hartree-Fock and correlation calculations of the properties of diatomic molecules
John C Morrison, University of Louisville, USA

10:00-10:30 Title: Dynamics of multidimensional nonlinear wave structures of the soliton and vortex types in dispersive complex media: Theory, simulation and applications
Vasily Yu Belashov, Kazan Federal University, Russia

Group Photo

Networking & Refreshment Break @ 10:30-10:50 @ Foyer

Sessions: Astrophysics & Spacescience | Astronomy

Session Chair: Pierre Barge, LAM/Aix-Marseille University, France
Session Co-chair: Irene Di Palma, University of Rome La Sapienza, Italy

Session Introduction

10:50-11:15 Title: Comparison of some features of comets 1P/Halley and 67P/CG
Leonid Ksanfomality, Space Research Institute-RAS, Russia

11:15-11:40 Title: Vortices in protoplanetary disks
Pierre Barge, LAM/Aix-Marseille University, France

11:40-12:05 Title: An unified model of supernova driven by magnetic monopoles
Qiuhe Peng, Nanjing University, China

12:05-12:30 Title: Long-term timing of the double pulsar J0737-3039 with XMM-Newton
Maria Noemi Iacolina, INAF-Astronomical Observatory of Cagliari, Italy

12:30-12:55 Title: Leveraging GPU accelerated computing to restore credibility to the giant impact hypothesis
Bryant Wyatt, Tarleton State University, USA

Panel Discussion

Lunch Break @ 13:00-14:00 @ Waterfall Atrium

Session Introduction

14:00-14:25 Title: Secular evolution of galaxies and the formation of Hubble sequence
Xiaolei Zhang, George Mason University, USA

14:25-14:50 Title: Stellar sail, planet re-climate and homeland defense
Edwin Zong, Laser Neutrino Annihilation Synergistic Applicator LLC, USA

14:50-15:15 Title: Modeling of dynamics of vortex structures in continuous media
Vasily Yu Belashov, Kazan Federal University, Russia

15:15-15:40 Title: Signs of hypothetic fauna and flora on Venus and their characterization
Leonid Ksanfomality, Space Research Institute of the Russian Academy of Sciences, Russia

Networking & Refreshment Break 15:40-16:00 @ Foyer

16:00-16:25 Title: Predictions of neutrino fluxes from Pulsar Wind Nebulae
Irene Di Palma, Universitá di Roma La Sapienza, Italy

16:25-17:50 Title: Finding life in the Universe: Goldilock places around stars and stellar systems
Manfred Cuntz, University of Texas, USA

17:50-18:15 Title: ESSυSB - The ESS neutrino facility for CP violation discovery
Marcos Dracos, Université de Strasbourg, France

Panel Discussion

Day 2 December 09, 2016

Plano - Richardson (A)

Keynote Forum

09:00-09:30 Title: Observational cosmology with thirty meter telescope
Masanori Iye, NAOJ, Japan

Plenary Talk

09:30-10:15 **Title: A quantum of darkness: The quantum origins of dark matter**
Allan D Ernest, Charles Sturt University, Australia

Symposium

10:15-10:55 **Title: Inspiring results for the formation of non-linear 'solitary waves' in space plasmas due to relativistic and quantum effects**
Bhaben Chandra Kalita, Manabendra Deka, Gauhati University, India

Networking & Refreshment Break 10:55-11:15 @ Foyer

Session:
Particle physics | Astroparticle Physics | Computational Astrophysics | Nuclear and Particle Physics | Darkmatter and Dark Energy

Session Chair: Amr Radi, Sultan Qaboos University, Oman
Session Co-chair: Man Ho Chan, The Education University of Hong Kong, China

Session Introduction

11:15-11:40 **Title: Scintillation detectors in modern high energy physics experiments and prospect of their use in future experiments**
Yuri Kharzeev, Joint Institute for Nuclear Research, Russia

11:40-12:05 **Title: Studying total cross section for proton-proton interactions at large hadrons collider**
Amr Radi, Sultan Qaboos University, Oman

12:05-12:30 **Title: Astrophysical ZeV acceleration in the relativistic jet from an accreting supermassive blackhole**
Toshikazu Ebisuzaki, RIKEN, Japan

12:30-12:55 **Title: Sommerfeld enhancement of dark matter annihilation in galaxies and galaxy clusters**
Man Ho Chan, The Education University of Hong Kong, China

Panel Discussion

Lunch Break 13:00-14:00 @ Waterfall Atrium

14:00-14:25 **Title: Pion-Pion elastic scattering, dynamical generation of the $f_0(500)$ resonance, finite-temperature effects and chiral restoration: A large-N approach**
Juan Santiago Cortes, Universidad de los Andes, Colombia

14:25-14:50 **Title: On the disk wind mass loss rates in QSOs**
Nicolas A Pereyra, University of Texas Rio Grande Valley, USA

14:50-15:15 **Title: Connecting LHCb flavor anomalies to astrophysics observations**
Wan-Zhe Feng, Northeastern University, USA

15:15-15:40 **Title: Energy radiation vs. thermal radiation detected from electromagnetic spectrum observations**
Gilbert Leon Joseph Beaudry, PhysicsOfUniverse.com, Canada

Networking & Refreshment Break 15:40-16:00 @ Foyer

16:00-16:25 **Title: Error analysis of Ia supernova and query on cosmic dark energy**
Qiuhe Peng, Nanjing University, China

16:25-16:50 **Title: The DAMPE mission**
Jian W U, Purple Mountain Observatory- CAS, China

Workshop

16:50-17:15 **Title: Nonlinear wave structures of soliton and vortex types in complex continuous media**
Vasily Yu Belashov, Kazan Federal University, Russia

17:15-17:40 **Title: The experimental studying of nonlinear waves strictures in the ionospheric plasma caused by the solar terminator and a powerful radio emission of "Sura" facility**
Igor Nasyrov, Kazan Federal University, Russia

17:40-18:05 **Title: Recurrent analysis of the large scale structures in non-uniform magnetospheric flows**
Khatuna Chargazia, Tbilisi State University, Georgia

Panel Discussion

Day 3 December 10, 2016

Plano - Richardson (A)

Session:
Atomic and Molecular Astrophysics | Neutrino Physics | Heavy-ion physics | Gravitational physics

Session Chair: Hongbo Cheng, East China University of Science and Technology, China
Session Co-chair: John G Bryant, University Paris VI, France

Session Introduction

09:00-09:25 **Title: Detection of gravitational waves with LIGO**
Irene Di Palma, Universitá di Roma La Sapienza, Italy

09:25-09:50	**Title: Accurate first-principle calculations of the spectra of diatomic molecules in planetary atmospheres** **John C Morrison,** University of Louisville, USA
09:50-10:15	**Title: Simultaneous observation of solar neutrons at the International Space Station and high mountain observatories in association with a flare on July 8, 2014** **Jose F Valdés-Galicia,** National Autonomous University of Mexico, Mexico
10:15-10:40	**Title: Baryogenesis and Dark Matter in U(1) Extensions** **Wan-Zhe Feng,** Northeastern University, USA
	Networking & Refreshment Break 10:40-11:00 @ Foyer
11:00-11:25	**Title: The calculation of the thermodynamic quantities of the Bardeen black hole** **Hongbo Cheng,** East China University of Science and Technology, China
11:25-11:50	**Title: Properties and applications of the modified Kepler problem** **John G Bryant,** Université Paris VI, France
11:50-12:15	**Title: Investigation of fragmentation (Z=2) of relativistic nuclei ^{16}O and ^{208}Pb** **E A Kotikov,** B P Konstantinov Petersburg Nuclear Physics Institute, Russia
	Young Researchers Forum
12:15-12:30	**Title: Approximation of the naive black hole degeneracy** **Youngsub Yoon,** Seoul National University, South Korea
12:30-12:45	**Title: COMPASS results on the nucleon spin structure** **Celso Franco,** LIP, Portugal
	Video Presentations
12:45-12:55	**Title: Modified non-linear Schrodinger models, infinite towers of conserved charges and bright solitons** **Harold Blas,** Federal University of Mato Grosso, Brazil
12:55-13:05	**Title: Jacobson resonance: Inertial electromagnetic induction** **Jerry I Jacobson,** Institute of Theoretical Physics and Advanced Studies, USA
13:05-13:15	**Title: DFT study of the Ni particle size on CH_4/CO_2 reforming over Ni/MgO catalyst** **Wen Ying Li,** Taiyuan University of Technology, China
	Lunch Break 13:25-14:25 @ Waterfall Atrium
	Panel Discussion
	Award & Closing Ceremony



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