

Session Program

22-24 Jun 2022



Siam Physics Congress 2022 (SPC2022)

S4 High Energy and Particle Physics

Thursday 23 June

10:45

S4 High Energy and Particle Physics: Oral presentation 5

Session | Location: QUARTZ

10:45-11:15

Implications of the Interacting Quark EoS in the Quark Stars with 4D Einstein-Gauss-Bonnet gravity

Speaker

Daris Samart

11:15-11:30

SUSY Breaking and R-symmetry Breaking in Gauged Wess-Zumino Model

Speaker

Sirapat Lookrak

11:30-11:45

Memorization and Prediction Capability of Interacting Phase Oscillators

Speaker

Mr Chanin Kumpeerakij

11:45-12:00

Auroral Initial Brightening and Maximum Poleward Expansion Locations based on POLAR/VIS and POLAR/UVI Observations

Speaker

Suwicha Wannawichian

12:00

10:45

S4 High Energy and Particle Physics: Oral presentation 6

Session | Location: TOPAZ

10:45-11:00

Phased-resolved energy distribution of pulsar PSRJ1825-0935

Speaker

Nawamin Intrarat

11:00-11:15

The Origin of Maser Flares

Speaker

Malcolm Gray

11:15-11:30

Machine learning application for dark matter - background classification in JUNO experiment

Speaker

Ms Jaruchit Siripak

11:30-11:45

Orion's Magnetic Gems

Speaker

Evgenii Semenko

11:45-12:00

Solar gamma-ray analysis during the latest solar cycle using FERMI-LAT data**Speakers**

Daiki Hazama, Jitpanu Arunotai

12:00

15:15

S4 High Energy and Particle Physics: Oral presentation 12

Session | Location: QUARTZ

15:15-15:30

Charmed baryon pair production in effective Lagrangian and Regge approaches**Speaker**

Mr Thanat Sangkhakrit

15:30-15:45

Parameters of a potential model for tetraquarks from S- and P-wave charmonium mesons**Speaker**

Mr Nattapat Tagsinsit

15:45-16:00

Review of Fluid-Gravity Correspondence**Speaker**

Thepprasith Svetatula

16:00-16:15

Search for BSM Higgs bosons using Machine Learning techniques**Speakers**

Jinna Waiwattana, Natha Pitakkultorn, Pakorn Saksirimontri

16:15-16:30

Proton Track reconstruction in a Telescope for Proton Computed Tomography**Speaker**

Arnon Songmoolnak

16:30

Friday 24 June

09:00

S4 High Energy and Particle Physics: Oral presentation 5

Session | Location: QUARTZ

09:00–09:30

Highlights of LHC Run-2 and Preparation for Run-3 and High Luminosity LHC

Speaker

Norraphat SRIMANOBHAS

09:30–09:45

Modification of hadron multiplicity ratios at the chiral phase transition

Speaker

Thiranat Bumnedpan

09:45–10:00

Non-minimal scalar field coupling to gravity with holographic effect in non flat universe

Speaker

Amornthep Tita

10:00–10:15

The production of charged particles and the kaonic nuclei K-p, K+anti-p in pp collisions at $\sqrt{s} = 7$ TeV and K-pp, K+anti-pp in Au + Au collisions at beam energy 130 GeV

Speaker

Natthaphat Thongyoo

10:15

09:00

S4 High Energy and Particle Physics: Oral presentation 6

Session | Location: TOPAZ

09:00–09:15

Gaia Early Data Release 3 peculiar velocity distribution of Galactic high-mass x-ray binaries

Speaker

Pornisara Nuchvanichakul

09:15–09:30

Analysis of the gamma-ray halo candidate 3HWC J1928+178 with Fermi-LAT data.

Speaker

Supphakit Wiweko

09:30–09:45

Investigation of Open Cluster NGC 7789 Using GAIA EDR3 Data

Speaker

Ms Princess Tucio

09:45–10:00

Unveiling Circumstellar Structure of High-mass Protostars via Multiple Species of MASERs in KaVA-LP with EAVN

	<p>Speaker Koichiro SUGIYAMA</p>
10:15	<p>10:00-10:15 Searching for dark matter with the Cherenkov Telescope Array.</p> <p>Speaker Armelle Jardin-Blicq</p>
11:30	<p>S4 High Energy and Particle Physics: Oral presentation 6 Session Location: TOPAZ</p>
	<p>11:30-11:45 Selection efficiency of galactic-scale outflow at $z \sim 0.1$: Imaging vs Spectroscopy</p> <p>Speaker Kantapon Jensangjun</p>
	<p>11:45-12:00 Simulating AGN feedback and its evolution in galaxy mergers: case study for NGC 5252</p> <p>Speaker Mr Manus Boonmalai</p>
12:00	
11:30	<p>S4 High Energy and Particle Physics: Oral presentation 5 Session Location: QUARTZ</p>
	<p>11:30-11:45 Anisotropic flow in Au + Au collision at 1 A GeV by using Quantum Molecular Dynamics Model</p> <p>Speaker Ms Jiraphat Phusamlee</p>
	<p>11:45-12:00 Soliton Solution to Schamel-Korteweg-de Vries Equation with Shooting Method</p> <p>Speaker Mr Chainarong Taeapanich</p>
12:00	
13:00	<p>S4 High Energy and Particle Physics: Oral presentation 12 Session Location: QUARTZ</p>
	<p>13:00-13:30 High Energy Astroparticles from Antarctica</p> <p>Speaker Waraporn Nuntiyakul</p>
	<p>13:30-13:45 On the effectiveness of relativistic electron Acceleration at geosynchronous orbit during high-intensity, long-duration, continuous AE activity (HILDCAA) during 2015 - 2017</p> <p>Speaker Dr Thana Yeeram</p>
	<p>13:45-14:00 sine-Gordon expansion method for the kink soliton to Oskolkov equation</p>

Speaker

Dr Songvudhi Chimchinda

14:00-14:15

Bianchi Cosmological Model with Quadratic Equation of State**Speaker**

Bjorn Jasper Raquel

14:15-14:30

Generalised Uncertainty Relations and the Problem of Dark Energy**Speaker**

Mr Matthew J. Lake

14:30-14:45

Geometrical representation of the multi-dimensional consistency : 1-form case**Speaker**

Mr Thanadon Kongkoom

14:45-15:00

Tension in rope coiling on a rotating plane**Speaker**

Sitichoke Amnuanpol

15:00-15:15

Investigation of perturbation effects on the periastron shifts of stellar orbits around super-massive black hole**Speaker**

Mr Bhattaradon Sukon

15:15-15:30

The effect of AGN feedback on shape of dark matter haloes**Speaker**

Netipon Naree

15:30-15:45

The potential scientific capabilities of the Evanescent Wave Coronagraph EvWaCo**Speaker**

Matthew Ridsdill-Smith

16:30

13:00

S4 High Energy and Particle Physics: Oral presentation 13

Session | Location: TOPAZ

13:00-13:10

Earth microlensing zone: how safe is the Earth from long-range detection by other civilisations?**Speaker**

Dr Supachai Awiphan

13:15-13:30

The Development of the Astrophysical Laboratory for the Study of Interstellar Surface Chemistry**Speaker**

Dr Chutipong Suwannajak

13:30-13:45

A Computational Study of the Gas-Phase Formose-Like Reactions under the Interstellar-medium-like conditions

Speaker
pitch wongkummoon

13:45-14:00

Thai National Telescope pointing and tracking: An analysis using secondary data product from science observation

Speakers
Dr Puji Irawati, Supachai Awiphan

14:00-14:15

Discovery of tsunami-like pulsation waves in the very fast rotating A-type stars

Speaker
Dr David Mkrtychian

14:15-14:30

Mock HI-galaxy catalogs and HI Mass Functions for future large-scale surveys

Speaker
Narenrit Thananusak

14:30-14:45

The Hubble tension problem with variation of the speed of light from Pantheon supernova dataset

Speaker
Teeraparb Chantavat

14:45-15:00

Improving Constraint on Evolution of Galaxies with Large-scale Outflow at $z < 1.5$ with Subaru/Hyper Suprime-Cam Survey

Speaker
Suraphong Yuma

15:00-15:15

Study on halo structure of Helium-6 nuclei

Speaker
Mr Chanatip Yensoung

15:15-15:30

Multi-frequency variabilities: blazar classification and statistical properties

Speaker
Rattanapong Yoyponsan

15:30-15:45

Photometric Variability of High Amplitude Delta Scuti Stars from AAVSO International Database

Speaker
Dr Nareemas Chehlaeh

16:30