

## **Session Program**

**21-23 May 2018**

# **Siam Physics Congress 2018**

## ***A12: High Energy Physics***

Topland | Hotel & Convention Center Phitsanulok  
<http://www.toplandhotel.com/index.php> Phitsanulok, Thailand

## Tuesday 22 May

09:00

### A12: High Energy Physics

**Session** | **Location:** Sukhothai Room | **Convener:** Dr Seckson Sukhasena

09:00–09:15

#### Mass-radius bounds in massive gravity models

##### Speaker

Mr Parinya Kareeso

09:15–09:30

#### The effect of nuclear equation of state on the direct flow in heavy ion collision reaction by using quantum molecular dynamics model

##### Speakers

Yatawee Prommi, Ms Thanaporn Roumsuk

09:30–09:45

#### Entropy Production at the Chiral Phase Transition

##### Speaker

Mr Apiwit Kittiratpattana

09:45–10:00

#### Exploring one loop amplitude at four-point vertices by the OPP method

##### Speaker

Mr Suppanat Supanyo

10:00–10:15

#### Charm Quark Equilibration at Ultrarelativistic Energies

##### Speaker

Christoph Herold

10:15–10:30

#### Study of tetraquark spectroscopy in group theory and quark model

##### Speaker

Mr Zheng Zhao

10:30

10:45

### A12: High Energy Physics

**Session** | **Location:** Sukhothai Room | **Convener:** Dr Pichet Vanichchapongjaroen

10:45–11:00

#### Study of a non-constant EMC Cut Parameter for Electron and Positron Tracks with Clusters in the Calorimeter of the PANDA Experiment

##### Speaker

Mr Tawanchat Simantathammakul

11:00–11:15

#### Estimation of the mass of low-lying baryons and ground state pentaquarks

##### Speaker

Kai Xu

11:15–11:30

#### STUDY OF DOSE RATE IN THE BRAIN MODEL BASED ON THE NEUTRON BEAM OF SUT-MNSR

**Speaker**  
Mr Kaijian Li

11:30-11:45

### Characterization of Monolithic Active Pixel Sensors with a 1 GeV Electron Beam at SLRI Beam Test Facility

**Speaker**  
Mr NATTHAWUT LAOJAMNONGWONG

11:45-12:00

### A study of charmed baryon production from chiral effective Lagrangian with heavy-quark symmetry and large- $N_c$ constraints

**Speaker**  
Mr Thanat Sangkhakrit

12:00-12:15

### Fitting coupling constant of ground-state charm baryons $\Lambda_c$ , $\Sigma_c$ by using decay width of quark model

**Speaker**  
Attaphon Kaewsnod

12:15

13:15

## A12: High Energy Physics

**Session** | **Location:** Sukhothai Room | **Convener:** Dr Seckson Sukhasena

13:15-13:30

### Search for the top squark pair production with two-body decays to a charm quark and a neutralino in proton-proton collisions at $\sqrt{s} = 13$ TeV

**Speaker**  
Kittikul Kovitanggoon

13:30-13:45

### A Study of Silicon Wafer with SRP Technique

**Speaker**  
Mr Sakdinan Naeosuphap

13:45-14:00

### Deuteron production from phase-space coalescence in the GSI/FAIR energy regime

**Speaker**  
Ms Sukanya Sombun

14:00-14:15

### Implication of heavy-quark symmetry in chiral Lagrangian of nucleon, D meson and charmed baryon

**Speaker**  
Thananuwat Suyuporn

14:15-14:30

### Dual formulation of covariant duality-symmetric action of D3-brane

**Speaker**  
Pichet Vanichchapongjaroen

14:30-14:45

### Neutrino-antineutrino oscillation

**Speaker**  
Mr Bayu Dirgantara

14:45

13:15

**A12: High Energy Physics****Session** | **Location:** Lopburi Room | **Convener:** Dr Patipan Uttayarat Uttayarat

13:15–13:30

**Uncertainty Quantification of Hypertriton Binding Energy****Speaker**

Ms Thiri Yadanar Htun

13:30–13:45

**Neutrino-Dark Matter Interaction and Bent Seesaw models****Speaker**

Mr Nakorn Thongyoi

13:45–14:00

**Neutrino spectrum in  $SU(3)_{\ell} \times SU(3)_E$  gauged lepton flavor model****Speaker**

Wararat Treesukrat

14:45