

**5th Thailand School on
High-Energy and
Astro-Physics (SHEAP 2023):
Neutrino Physics**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Opening remark

Monday 10 July 2023 09:00 (15 minutes)

Contribution ID: 2

Type: **not specified**

Overview lecture

Monday 10 July 2023 09:15 (1h 15m)

Presenter: ITTISAMAI, Pawin (Chulalongkorn University)

Contribution ID: 3

Type: **not specified**

Particle Physics I

Monday 10 July 2023 10:45 (1h 15m)

1-to-2 processes, relativistic kinematics, four-vector.

Presenter: Dr SUPANAM, Nopmanee (Srinakharinwirot University)

Contribution ID: 4

Type: **not specified**

Field Theory I

Monday 10 July 2023 13:30 (1h 15m)

Why do we need fields? Classical fields, scalar fields, Lagrangian, free fields, mass terms and field interactions.

Presenter: Dr UNGKITCHANUKIT, Ahpisit (Chulalongkorn University)

Contribution ID: 5

Type: **not specified**

Field Theory II

Monday 10 July 2023 15:15 (1h 15m)

Gauge invariance and gauge fields

Presenter: Dr UNGKITCHANUKIT, Ahpisit (Chulalongkorn University)

Contribution ID: 6

Type: **not specified**

Tutorial

Monday 10 July 2023 18:00 (2h 30m)

Presenters: Dr PONGKITIVANICHKUL, Chakrit (Khon Kaen University); ITTISAMAI, Pawin (Chulalongkorn University)

Contribution ID: 7

Type: **not specified**

Quantum Mechanics I

Tuesday 11 July 2023 09:00 (1h 15m)

Presenter: Dr SUWANNA, Sujin (Mahidol University)

Contribution ID: 8

Type: **not specified**

Quantum Mechanics II

Tuesday 11 July 2023 10:45 (1h 15m)

Presenter: Dr SUWANNA, Sujin (Mahidol University)

Contribution ID: 9

Type: **not specified**

Field Theory III

Tuesday 11 July 2023 13:30 (1h 15m)

Presenter: Dr POOVUTTIKUL, NAPAT

Contribution ID: **10**

Type: **not specified**

Public Lecture (Title TBA)

Tuesday 11 July 2023 15:15 (1h 15m)

Presenter: Dr WECHAKAMA, Maneenate (Kasetsart University)

Contribution ID: **11**

Type: **not specified**

School Banquet

Presenters: Dr PONGKITIVANICHKUL, Chakrit (Khon Kaen University); ITTISAMAI, Pawin (Chulalongkorn University)

Contribution ID: **12**

Type: **not specified**

Particle Physics II

Wednesday 12 July 2023 09:00 (1h 15m)

Presenter: Dr POOMSA-ARD, Kem (Srinakharinwirot University)

Contribution ID: **13**

Type: **not specified**

Particle Physics III

Wednesday 12 July 2023 10:45 (1h 15m)

Presenter: Dr POOMSA-ARD, Kem (Srinakharinwirot University)

Contribution ID: 14

Type: **not specified**

Field Theory IV

Wednesday 12 July 2023 13:30 (1h 15m)

Presenter: Dr POOVUTTIKUL, NAPAT

Contribution ID: 15

Type: **not specified**

Field Theory V

Wednesday 12 July 2023 15:15 (1h 15m)

Presenter: Dr POOVUTTIKUL, NAPAT

Contribution ID: **16**

Type: **not specified**

Introduction to Neutrino Physics

Thursday 13 July 2023 09:00 (1h 15m)

Presenter: Dr WATCHARANGKOOL, Apimook (NARIT)

Contribution ID: 17

Type: **not specified**

Neutrino Experiment I: JUNO

Thursday 13 July 2023 10:45 (1h 15m)

Presenter: Dr WATCHARANGKOOL, Apimook (NARIT)

Contribution ID: **18**

Type: **not specified**

Neutrino and Beyond the Standard Model Physics

Thursday 13 July 2023 13:30 (1h 15m)

Presenter: Dr PONGKITIVANICHKUL, Chakrit (Khon Kaen University)

Contribution ID: **19**

Type: **not specified**

Neutrino and Beyond the Standard Model Physics

Thursday 13 July 2023 15:15 (1h 15m)

Presenter: Dr PONGKITIVANICHKUL, Chakrit (Khon Kaen University)

Contribution ID: **20**

Type: **not specified**

Tutorial

Thursday 13 July 2023 18:00 (2h 30m)

Presenters: Dr PONGKITIVANICHKUL, Chakrit (Khon Kaen University); ITTISAMAI, Pawin (Chulalongkorn University)

Contribution ID: 21

Type: **not specified**

Neutrino Experiment II: IceCube

Friday 14 July 2023 09:00 (1h 30m)

Presenter: ASAWATANGTRAKULDEE, Chayanit (Chulalongkorn University (TH))

Contribution ID: 22

Type: **not specified**

Neutrino experiment III: KATRIN

Friday 14 July 2023 11:00 (1h 15m)

Presenter: Dr SREETHAWONG, Warintorn (Suranaree University of Technology)

Contribution ID: 23

Type: **not specified**

Concluding Remark and Round Table Discussion

Friday 14 July 2023 13:45 (2h 15m)

Presenters: Dr PONGKITIVANICHKUL, Chakrit (Khon Kaen University); ITTISAMAI, Pawin (Chulalongkorn University)

Contribution ID: 24

Type: **not specified**

Neutrino mass model II

Presenter: Dr PONGKITIVANICHKUL, Chakrit (Khon Kaen University)

Contribution ID: 25

Type: **not specified**

Tutorial

Presenters: Dr PONGKITIVANICHKUL, Chakrit (Khon Kaen University); ITTISAMAI, Pawin (Chulalongkorn University)

Contribution ID: **26**

Type: **not specified**

Tutorial

Wednesday 12 July 2023 18:00 (2h 30m)

Presenters: Dr PONGKITIVANICHKUL, Chakrit (Khon Kaen University); ITTISAMAI, Pawin (Chulalongkorn University)