1st School for Particle Detectors and Applications at KNU (SPDAK 2019)

Report of Contributions

Contribution ID: **1**   Type: **not specified**

Particle interactions with materials and detection mechanism

Contribution ID: **2**

Type: **not specified**

Particle interactions with materials and detection mechanism

Monday 14 January 2019 09:00 (1h 20m)

Presenter: Prof. LEE, Sehwook (Kyungpook National University)

Session Classification: Detector Physics

Contribution ID: **3**　　　　　　　　　　　　　　　　　　Type: **not specified**

Optics for light propagation and detection

Monday 14 January 2019 10:30 (1 hour)

Presenter: Prof. YEO, Junyeob (Kyungpook National University)

Session Classification: Detector Physics

Contribution ID: 4　　　　　　　　　　　　　　　　　　Type: **not specified**

Demonstration of lithography

Monday 14 January 2019 11:30 (1 hour)

Presenter:　Prof. YEO, Junyeob (Kyungpook National University)

Session Classification:　Detector Physics

Contribution ID: **5**   Type: **not specified**

Introduction to fast electronics for detectors

Monday 14 January 2019 13:30 (1 hour)

Presenter: Dr RYU, Minsang (RISP)

Session Classification: Fast Electronics for Detectors

Contribution ID: 6　　　　　　　　　　　　　　　　Type: **not specified**

Demonstration of a simple experimental setup using fast electronics

Monday 14 January 2019 14:40 (50 minutes)

Presenter: Dr RYU, Minsang (RISP)

Session Classification: Fast Electronics for Detectors

Contribution ID: **7**   Type: **not specified**

Level 1 pixel track trigger simulation

Monday 14 January 2019 16:30 (40 minutes)

Presenter: Prof. MOON, Chang-seong

Session Classification: Simulations

Contribution ID: **8**

Type: **not specified**

Exercise of l1 pixel track trigger simulation

Monday 14 January 2019 17:20 (1h 40m)

Presenter: Prof. MOON, Chang-seong

Session Classification: Simulations

Contribution ID: **9**   Type: **not specified**

Introduction to Radiation Detection

Tuesday 15 January 2019 09:00 (50 minutes)

Presenter: Prof. PARK, Hwanbae (Kyungpook National University)

Session Classification: Silicon and Radiation Detection

Contribution ID: **10**   Type: **not specified**

Demonstration of radiation detection with HPGe, Liquid Scintillation Counting and Ion Chamber

Tuesday 15 January 2019 10:00 (2 hours)

Presenter: Prof. PARK, Hwanbae (Kyungpook National University)

Session Classification: Silicon and Radiation Detection

Contribution ID: **11**   Type: **not specified**

Design and simulation of silicon detector (demonstration)

Tuesday 15 January 2019 13:00 (30 minutes)

Presenter: Prof. PARK, Hwanbae (Kyungpook National University)

Session Classification: Silicon and Radiation Detection

Contribution ID: **12**   Type: **not specified**

Silicon module production and bonding

Tuesday 15 January 2019 13:40 (2 hours)

Presenter: Prof. PARK, Hwanbae (Kyungpook National University)

Session Classification: Silicon and Radiation Detection

Contribution ID: **13**   Type: **not specified**

Measurements of I-V characteristic and radiation

Tuesday 15 January 2019 15:40 (2h 20m)

Presenter: Prof. PARK, Hwanbae (Kyungpook National University)

Session Classification: Silicon and Radiation Detection

Contribution ID: **14**   Type: **not specified**

Introduction to scintillation and scintillating materials

Wednesday 16 January 2019 09:00 (50 minutes)

Presenter: Prof. KIM, Hongjoo (Kyungpook National University)

Session Classification: Scintillation and the Performance of Detectors

Contribution ID: 15

Type: **not specified**

Measurements of light output, energy resolution, decay time of crystal and plastic scintillator

Wednesday 16 January 2019 10:00 (2 hours)

Presenter: Prof. LEE, Moo Hyun (IBS, CUP)

Session Classification: Scintillation and the Performance of Detectors

Contribution ID: **16**　　　　　　　　　　　　　　　　　Type: **not specified**

Measurements of light output, energy resolution, decay time of crystal and plastic scintillator

Wednesday 16 January 2019 13:00 (3 hours)

Presenter:　Prof. LEE, Moo Hyun (IBS, CUP)

Session Classification:　Scintillation and the Performance of Detectors

Contribution ID: **17** Type: **not specified**

X-ray luminescence

Wednesday 16 January 2019 16:00 (2 hours)

Presenter: Prof. KIM, Hongjoo (Kyungpook National University)

Session Classification: Scintillation and the Performance of Detectors

Contribution ID: **18**
Type: **not specified**

Introduction to GEANT4

Thursday 17 January 2019 09:00 (50 minutes)

Primary author: Prof. LEE, Sehwook (Kyungpook National University)

Co-author: Mr BAE, Hanwook (Kyungpook National University)

Presenters: Mr BAE, Hanwook (Kyungpook National University); Prof. LEE, Sehwook (Kyungpook National University)

Session Classification: Simulations

Contribution ID: **19**   Type: **not specified**

Simulation of a crystal detector (energy resolution and linearity)

Thursday 17 January 2019 10:00 (2 hours)

Primary author: Prof. LEE, Sehwook (Kyungpook National University)

Co-author: Mr BAE, Hanwook (Kyungpook National University)

Presenters: Mr BAE, Hanwook (Kyungpook National University); Prof. LEE, Sehwook (Kyungpook National University)

Session Classification: Simulations

Contribution ID: **20**   Type: **not specified**

Measurement of longitudinal electromagnetic shower profile

Thursday 17 January 2019 13:00 (2h 30m)

Primary author: Prof. LEE, Sehwook (Kyungpook National University)

Co-author: Ms KIM, Bobae (Kyungpook National University)

Presenters: Ms KIM, Bobae (Kyungpook National University);   Prof. LEE, Sehwook (Kyungpook National University)

Session Classification: Simple Experiments

Contribution ID: **21**　　　　　　　　　　　　　　　　　　Type: **not specified**

Measurement of muon flux

Thursday 17 January 2019 15:30 (2h 30m)

Primary author:　Prof. LEE, Sehwook (Kyungpook National University)

Co-author:　Mr HUH, Chang-gi (Kyungpook National University)

Presenters:　Mr HUH, Chang-gi (Kyungpook National University);　Prof. LEE, Sehwook (Kyungpook National University)

Session Classification:　Simple Experiments

Contribution ID: **22**
Type: **not specified**

Introduction to silicon detectors

Monday 14 January 2019 15:30 (50 minutes)

Presenter: Dr LEE, Jik (Kyungpook National University)

Session Classification: Silicon and Radiation Detection