## NIC XVII school 2023



## **Report of Contributions**

Opening

Contribution ID: 1 Type: not specified

### **Opening**

Monday, 11 September 2023 09:00 (30 minutes)

**Presenter:** HAHN, Insik (Center for Exotic Nuclear Studies, IBS)

Contribution ID: 2 Type: not specified

## Lecture#1 Nuclear data and Computational Infrastructure for Nuclear Astrophysics

Monday, 11 September 2023 09:30 (1h 30m)

Nuclear data and Computational Infrastructure for Nuclear Astrophysics

Link:

 $https://nucastrodata.org/NIC\_School/resources.html$ 

Presenter: SMITH, Michael S. (Oak Ridge National University)

Contribution ID: 3 Type: not specified

#### **Lecture#1 Tutorial**

Monday, 11 September 2023 11:00 (1 hour)

Link:

 $https://nucastrodata.org/NIC\_School/resources.html$ 

Presenter: SMITH, Michael S. (Oak Ridge National University)

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

## Lecture #2 Experimental nuclear astrophysics (RI beam experiments)

Monday, 11 September 2023 13:30 (1h 30m)

Experimental nuclear astrophysics (RI beam experiments)

**Presenter:** PAIN, Steve D. (Oak Ridge National Laboratory)

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

# Lecture #2 Tutorial Nuclear Physics simulations using Geant4/NPtools

Monday, 11 September 2023 15:20 (1h 40m)

Nuclear Physics simulations using Geant4/NPtools

**Presenter:** HWANG, Jongwon (Center for Exotic Nuclear Studies, Institute for Basic Science)

Contribution ID: 6 Type: not specified

### **Coffee Break and Group Making**

Monday, 11 September 2023 17:00 (50 minutes)

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

## Lecture #3 (Online) Nucleosynthesis and reaction networks

Tuesday, 12 September 2023 09:30 (1h 30m)

Nucleosynthesis and reaction networks

Presenter: MUMPOWER, Matthew (Los Alamos National Laboratory (LANL))

Contribution ID: 8 Type: not specified

#### **Lecture #3 Tutorial**

Tuesday, 12 September 2023 11:00 (1 hour)

Lecture #3 tutorial

Google Drive Link:

 $https://drive.google.com/drive/folders/1jB4GBst2AePaouFgLtulJM3rawiaaCbc?usp=drive\_link$ 

Presenter: HOLMBECK, Erika (Carnegie Observatory)

Contribution ID: 9 Type: not specified

## Lecture #4 Observations, chemical abundances in stars

Tuesday, 12 September 2023 13:30 (1h 30m)

Observations, chemical abundances in stars

Presenter: AOKI, Wako (National Astronomical Observatory of Japan)

Contribution ID: 10 Type: not specified

### **Group Activities / Q&A**

Tuesday, 12 September 2023 15:50 (2 hours)

Group Activities / Q&A

NIC XVII school ... / Report of Contributions

Lecture #3

Contribution ID: 11 Type: not specified

#### Lecture #3

TBA

NIC XVII school ... / Report of Contributions

Lecture #3

Contribution ID: 12 Type: not specified

#### Lecture #3

TBA

Contribution ID: 13 Type: not specified

## Lecture #5 Experimental nuclear astrophysics (stable beam experiments and underground)

Wednesday, 13 September 2023 09:00 (1h 20m)

Experimental nuclear astrophysics (stable beam experiments and underground)

**Presenter:** TANG, Xiaodong (Institute of Modern Physics, Chinese Academy of Sciences)

Contribution ID: 14 Type: not specified

## Lecture #6 Observation of neutron star merger or kilonova

Wednesday, 13 September 2023 10:40 (1h 20m)

Observation of neutron star merger or kilonova

**Presenter:** HOLMBECK, Erika (Carnegie Observatory)

Contribution ID: 15 Type: not specified

#### Lecture #7 (Online) Nuclear matter, equation of state, High-density matter

Wednesday, 13 September 2023 16:30 (1h 20m)

(Online) Nuclear matter, equation of state, High-density matter

Presenter: HUGUET, Arnau Rios (University of Barcelona)

Contribution ID: 16 Type: not specified

### **Group Activities / Q&A**

Wednesday, 13 September 2023 13:30 (2h 30m)

Contribution ID: 17 Type: not specified

### Lecture #8 Stellar modelling of massive stars

Thursday, 14 September 2023 09:00 (1h 20m)

Stellar modelling of massive stars

Presenter: YOON, Sung-Chul (Seoul National University)

Contribution ID: 18 Type: not specified

## Lecture #9 Detection of Gravitational Waves and Astrophysics with Gravitational Waves

Thursday, 14 September 2023 10:40 (1h 20m)

Detection of Gravitational Waves and Astrophysics with Gravitational Waves

**Presenter:** SON, Edwin J. (National Institute for Mathematical Sciences)

Contribution ID: 19 Type: not specified

## Lecture #10 Nuclear physics theories to calculate nuclear properties important for Astrophysics

Thursday, 14 September 2023 13:30 (1h 30m)

Nuclear physics theories to calculate nuclear properties important for Astrophysics

**Presenter:** KAJINO, Toshitaka (Beihang University)

Contribution ID: 20 Type: not specified

### **Group Activities / Q&A**

Thursday, 14 September 2023 15:20 (2h 30m)

TBA

Contribution ID: 21 Type: not specified

### **Student presentation for Group Activites**

Friday, 15 September 2023 09:00 (2 hours)

Closing

Contribution ID: 22 Type: not specified

### Closing

Friday, 15 September 2023 11:00 (1 hour)

Presenter: SMITH, Michael S. (Oak Ridge National University)

Contribution ID: 23 Type: not specified

### Nuclear Astrophysics activities in Korea

Tuesday, 12 September 2023 15:20 (30 minutes)

Nuclear Astrophysics activities in Korea

**Presenter:** Dr AHN, Sunghoon(Tony) (Center for Exotic Nuclear Studies, Institute for Basic Science)