

# **Program**

## ***The 9th Asian Nuclear Reaction Database Development Workshop***

**November 12 ~ 15, 2018**

**The-K hotel, Gyeongju**

**Organized by**

**Nuclear Data Center,  
Korea Atomic Energy Research Institute**

**In cooperation with the International Atomic Energy Agency**

# Workshop Program

**Nov. 12 (Mon.)**

**(Hyangbipa hall B, 2nd floor The-K hotel)**

10:00-18:00 EXFOR session

**Nov. 13 (Tue.)**

**(Hyangbipa hall B, 2nd floor The-K hotel)**

10:00-12:00 EXFOR session (Cont.)

12:00-13:00 Lunch

13:00-13:50 *Registration*

**(Haegeum hall, 1st floor The-K hotel)**

13:50-14:00 *Opening & Welcome Address*

**Young-Ouk Lee (KAERI)**

**14:00-15:40 Session I.**

**Chairman: C.S. Gil (KAERI)**

14:00-14:20 Compilation and dissemination of fission product yields  
N. Otsuka (IAEA)

14:20-14:40 Activity of nuclear reaction data in JCPRG  
D. Ichinkhorloo (JCPRG, Japan)

14:40-15:00 Status of EXFOR activity in India and evaluation of neutron induced cross section  
V. Devi (IET, India)

15:00-15:20 EXFOR compilation at CNDC and systematics of thermal neutron fission cross sections  
J. Wang (CNDC, China)

15:20-15:40 EXFOR compilation and nuclear data measurement at KAERI/NDC  
S.C. Yang (KAERI, Korea)

**15:40-16:00**

*Coffee Break*

**16:00-17:40 Session II.****Chairman: N. Otuska (IAEA)**

- 16:00-16:20 Evaluation of photonuclear cross sections at KAERI  
Y.S. Cho (KAERI, Korea)
- 16:20-16:40 Mass yield distribution in the  $^{232}\text{Th}(\text{n},\text{f})$  reaction based on the  $^9\text{Be}(\text{p},\text{n})$  reaction  
H. Naik (BARC, India)
- 16:40-17:00 Study of nuclear reaction  $^{141}\text{Pr}(\gamma,2\text{n})^{139}\text{Pr}$  and  $^{141}\text{Pr}(\gamma,\text{pn})^{139}\text{Ce}$  induced with bremsstrahlung end-point energy in the range 50 – 70 MeV  
Nguyen Van Do (VAST, Vietnam)
- 17:00-17:20 KAERI neutron time-of-flight (nTOF) facility - introduction and current status  
J.W. Kim (KAERI, Korea)
- 17:20-17:40 Development of 9 MeV electron accelerating tube for radiotherapy machine  
M.W. Lee (DIRAMS, Korea)

**18:00-20:00****Welcome Dinner****Nov. 14 (Wed.)****(Haegeum hall, 1st floor The-K hotel)****10:00-11:00 Session III.****Chairman: G.N. Kim (KNU)**

- 10:00-10:20 The first unbound states of mirror  $^9\text{B}$  and  $^9\text{Be}$  nuclei in the complex scaling method  
M. Odsuren (NUM, Mongolia)
- 10:20-10:40 Refraction effects in the  $\alpha$  and  $^3\text{He}$  scattering on light nuclei at energies about 50 MeV  
T. Zholdybayev (INP, Kazakhstan)
- 10:40-11:00 Analysis of the  $^{16}\text{O}(\text{p},\text{pn})^{15}\text{O}$  reaction using the CDCC method  
D. Ichinkhorloo (JCPRG, Japan)

**11:00-11:20****Coffee Break**

**11:20-12:20 Session IV.****Chairman: Y.S. Cho (KAERI)**

- 11:20-11:40 The status of nuclear data measurement in KNU  
G.N. Kim (KNU, Korea)
- 11:40-12:00 Neutron Data Production System  
S.W. Hong (SKKU, Korea)
- 12:00-12:20 Development of a semi-empirical model for calculation of fission product yields  
J.H. Lee (KAERI, Korea)

**12:20-14:00*****Lunch*****14:00-15:20 Session V.****Chairman: T.Y. Song (KAERI)**

- 14:00-14:20 Systematic study on charged-particle induced reaction for medical radioisotopes production  
M. Aikawa (JCPRG, Japan)
- 14:20-14:40 Proton induced reaction cross section of <sup>nat</sup>W with proton beam of 45 MeV  
Nguyen Thi Hien (KNU, Korea)
- 14:40-15:00 Measurements of cross-section for the theragnostic radionuclide <sup>67</sup>Cu  
J.K. Park (KAERI, Korea)
- 15:00-15:20 Measurement of neutron capture yield and average capture cross section of Dysprosium isotopes at J-PARC  
J.E. Lee (DAU, Korea)

**15:20-15:40*****Coffee Break***

**15:40-17:00 Session VI.****Chairman: M. Aikawa (JCPRG)**

- 15:40-16:00 Laser spectroscopy and atomic structure calculations for nuclear properties  
D.H. Kwon (KAERI, Korea)
- 16:00-16:20 Theoretical study on the production of new neutron-rich isotopes in multi-nucleon transfer reactions  
M.H. Mun (KISTI, Korea)
- 16:20-16:40 Validation of thermal neutron scattering cross sections for heavy water based on molecular dynamics simulation  
H.L. Hyun (KAERI, Korea)
- 16:40-17:00 Visualization of fission product yield by NDPlot  
Y. Jin (CNDC, China)

**17:00-18:00 Closing session****18:00-20:00 *Dinner*****Nov. 15 (Thu.)****(Haegeum hall, 1st floor The-K hotel)**

- 09:30-12:00 Facility tour: proton linear accelerator (KOMAC)
- 12:00-14:00 Lunch
- 14:00-17:00 Sightseeing in Gyeong-ju