

40<sup>th</sup> ASRC International Workshop  
**“Experimental and Theoretical Advances in Fission and Heavy Nuclei”**

Nuclear Science Research Institute, Japan Atomic Energy Agency, Tokai, Japan

12 – 13<sup>th</sup> December, 2016

<http://asrc.jaea.go.jp/soshiki/gr/HENS-gr/workshop6/index6.html>

**12<sup>th</sup> December (Monday)**

8:40 – 9:20	Registration	
9:20 – 9:25	Katsuhisa Nishio JAEA	Opening
9:25 – 9:30	Sadamichi Maekawa Director General of ASRC, JAEA	Welcome address
Chair : Katsuhisa Nishio, JAEA		
9:30 – 9:55	Julien Taieb (25) CEA	Neutron emission from the SOFIA experiment
9:55 – 10:20	Diego Ramos (25) IPN Orsay	Inverse-Kinematics Fission at VAMOS/GANIL
10:20 – 10:40	Horia Pasca (20) JINR, BLTP	Energy dependence of the shape of the fission fragment charge distribution
Coffee break ( 10:40 – 11:10)		
Chair : Krzysztof Rykaczewski, ORNL		
11:10 – 11:35	Kentaro Hirose (25) JAEA	Study of fission using multi-nucleon transfer reactions
11:35 – 11:55	Antonio Di Nitto (20) University of Mainz	Identification of multi-nucleon transfer reaction products in $^{50}\text{Ti} + ^{249}\text{Cf}$ reactions
11:55 – 12:15	Shouya Tanaka (20) Kindai University	Study of multi-chance fission in Langevin calculation
Workshop Photo Lunch ( 12:15-13:30 )		
Chair : Yuichiro Nagame, JAEA		
13:30 – 13:55	Hiroari Miyatake (25) KEK-WNSC	Recent progress of the KISS project at KEK-WNSC
13:55 – 14:20	Dimiter Balabanski (25) ELI-NP	Photofission at ELI-NP: The future is emerging
14:20 – 14:45	Jorgen Randrup (25) LBNL	Fission dynamics with microscopic level densities
14:45 – 15:10	Eiji Ideguchi (25) RCNP, Osaka University	CAGRA project at RCNP
Coffee break (15:10 – 15:40)		
Chair : Masato Asai, JAEA		
15:40 – 16:00	Hiroaki Utsunomiya (20) Konan University	Photoneutron measurements at NewSUBARU and an extension to photofission
16:00 – 16:20	Antalic Stanislav (20) Comenius University	Nuclear structure studies of seaborgium and rutherfordium isotopes
16:20 – 16:40	Toshiyuki Shizuma (20) QST	Nuclear resonance fluorescence measurements with mono-energetic, linearly polarized photons
16:40 – 17:00	Igor Tsekhanovich (20) University of Bordeaux	New fission data in the sub-lead region

Coffee break (17:00 – 17:20)		
Chair : Jorgen Randrup, LBNL		
17:20 – 17:40	Tobias Wright (20) Manchester University	Recent results from measurements at n_TOF, CERN of prompt gamma-ray energies and multiplicities of $^{235}\text{U}$ using STEFF
17:40 – 18:00	Alf G6ök (20) European Commission, JRC	Prompt neutron emission correlations with fission fragment properties
18:00 – 18:20	Hiroyuki Makii (20) JAEA	Measurement of high-energy prompt fission gamma-rays in $^{235}\text{U}(n_{th},f)$
18:20 – 18:40	Takaharu Otsuka (20) University of Tokyo	Quantum Self Organization and Nuclear Shapes
Social Dinner : Restaurant “Uoyasu” (19:00 – 21:00 )		

### 13<sup>th</sup> December (Tuesday)

Chair : Riccardo Orlandi, JAEA		
9:15 – 9:40	Peter Möller (25) LANL	Calculation of Fission Yields versus proton and neutron number
9:40 – 10:05	Kathrin Wimmer (25) University of Tokyo	Shape coexistence and isospin symmetry in A=70 nuclei: Spectroscopy of the $T_Z = -1$ nucleus $^{70}\text{Kr}$
10:05 – 10:30	Shigeru Kubono (25) RIKEN/IMP/CNS	Problems in BigBang nucleosynthesis; Heavy element synthesis and Li problem
(10:30 - 11:00 ) Coffee break		
Chair : Hiroyuki Koura, JAEA		
11:00 – 11:25	Masaki Sasano (25) RIKEN	Development of the missing mass (p,2p) setup for fission experiments at RIBF
11:25 – 11:50	Taiki Tanaka (25) RIKEN /Kyushu University	Study of barrier distribution in heavy reaction system at the RIKEN-GARIS
11:50 – 12:15	Takahiro Wada (25) Kansai University	Angular distribution and energy of scission neutrons
(12:15 - 13:30) Lunch		
Chair : Yutaka Utsuno, JAEA		
13:30 – 13:55	Krzysztof Rykaczerwski (25) ORNL	Beta decay strength in fission products from total absorption spectroscopy
13:55 – 14:20	Brett Manning (25) LANL	Fission Fragment Studies at LANSCE
14:20 – 14:40	Fedir Ivaniuk (20) Institute of Nuclear Research, Kiev	The energy- and mass-distributions of fission fragments of some actinides and super-heavy nuclei
(14:40 – 15:00 ) Coffee Break		
Chair : Andrei Andreyev, University of York / JAEA		
15:00 – 15:20	P.A. Söderström (20) University of York	Ground state and isomer decay properties of heavy neutron-rich nuclei produced from $^{238}\text{U}$ fission within the EURICA project at RIKEN
15:20 – 15:40	Masato Asai (20) JAEA	Fission studies for neutron-rich Fm, Md, No, and Lr isotopes using ISOL
15:40 – 16:05	Costel Petrache (25) University Paris Süd	New view on wobbling and chirality in A~130 nuclei
16:05– 16:10	Andrei Andreyev (5) Univ. of York / JAEA, Closing	