

Workshop on Advanced Monte Carlo Method, July 21-22, 2015 rev. 2015/7/6  
 Kyoto University Research Reactor Institute supported by the Kyoto University Foundation

July 21st (Tue)		
Time	Program	Speaker
09:25	Opening Remark	Prof. Yamamoto, T. (KU)
Variance estimation and convergence diagnosis		
9:30-10:30	Variance estimation and central limit theorem	Dr. Ueki, Taro (JAEA)
10:30-11:10	Fission source convergence acceleration by fission matrix method	Prof. Kitada, Takanori (OU)
11:10-11:50	Diagnosis of fission source convergence	Dr. Kim, Song Hyun (HYU)
11:50-13:00	Lunch break	
13:00-13:40	Underestimation of variance for fission rate distribution	Prof. Endo, Tomohiro (NU)
13:40-14:40	Real variance estimations by the FSD correlation method and the history-based batch method	Prof. Shim, Hyung Jin (SNU)/ Dr. Park, Ho Jin (KAERI).
14:40-15:10	Batch-statistic method used for real variance estimation	Dr. She, Ding (TU)
15:10-15:25	Break	
Student session 1 (see the next page)		
15:25-17:30	Student session 1	
17:40-19:40	Reception (Library building next to the workshop place)	

July 22nd (Wed)		
Time	Program	Speaker
Depletion and whole core calculation		
9:30-10:20	MC whole core analysis of LWRs	Prof. Lee, Deokjung (UNIST)
10:20-11:10	Data parallelism methods for large-scale whole core burnup calculations	Dr. Liang, Jin-gang (TU)
11:10-11:50	Analysis of BEAVRS benchmark problem by using enhanced Monte Carlo code MVP	Dr. Suzuki, Motomu (CRIEPI)
11:50-13:00	Lunch break	
Perturbation and MC S/U method		
13:00-13:50	Monte Carlo perturbation methods	Dr. Nagaya, Yasunobu (JAEA)
13:50-14:40	Accurate and efficient algorithms of computing eigenvalue sensitivity coefficients with regard to nuclear data	Mr. Qiu, Yishu (TU)
14:40-15:00	Break	
Some other issues		
15:00-15:30	Modified power method in MC simulation	Dr. Zhang, Peng (UNIST)
15:30-16:00	Dynamic Monte Carlo in frequency domain	Prof. Yamamoto, T. (KU)

16:00-16:30	Monte Carlo alpha iteration algorithm	Prof. Shim, Hyung Jin (SNU)
Student session 2 (see the next page)		
16:30-17:30	Student session 2	
17:30	Closing remark	
19:40-21:30	Banquet (Move to Rinku Gate Tower by bus and train)	

Student session 1 15:25-17:30, July 21st		
	MR-CADIS method as one of the hybrid method for the effective variance reduction	Mr. Kim, Do Hyun (HYU)
	Development of simulation capability of stochastic media in RMC	Mr. Liu, Shichang (TU)
	Flexible and advanced description of initial source distribution in Monte Carlo code RMC	Mr. Shang, Xiaotong (TU)
	Application of CMFD in MC simulation	Mr. Lee, Hyunsuk (UNIST)
	McCARD analyses for the OECD sodium-cooled fast reactor benchmarks	Mr. Jang, Sang Hoon (SNU)
	Monte Carlo isothermal temperature reactivity analysis of the Giacint Critical Facility	Mr. Lee, Dong Hyuk (SNU)
	Monte Carlo higher eigen-mode calculations	Mr. Lee, Seung Cheol (SNU)
	TBD	(NU)
Student session 2 16:30-17:30, July 22nd		
	Quantification of Uncertainty Propagation in Mesh-based 2-step Monte Carlo Simulation for Residual Radiation Analysis	Mr. Han, Gi Young (HYU)
	Depletion capability of MCS code	Mr. Jeong, Yongjin (UNIST)
	Monte Carlo generalized S/U analyses for the UAM phase 1 benchmarks	Mr. Choi, Sung Hoon (SNU)
	Comparison of Monte Carlo on-the-fly doppler broadening methods for the VERA benchmark	Mr. Kang, Soo Min (SNU)

#### Acronyms

CRIEPI: Central Research Institute of Electric Power Industry  
HYU: Han Yang University, JAEA: Japan Atomic Energy Agency: KU: Kyoto University,  
NU: Nagoya University, OU: Osaka University, SNU: Seoul National University,  
TU: Tsinghua University, UNIST: Ulsan National Institute of Science and Technology.  
TBD: to be determined.