

## AFAD 2018 Schedule (tentative)

January 28			
17:00~ 20:00	Registration and reception		
January 29 (DCC Conference hall, Room 301)			
8:30~9:00	Registration		
9:00~9:10	Welcome remarks		
		Speaker	Affiliation
09:10~9:40	Plenary talk "Status and prospect of KEK"	Yasuhiro Okada	KEK
9:40~10:10	Plenary talk "Status and Progress with the High Energy Electron Positron Collider (CEPC)"	Xinchou Lou	IHEP
10:10~10:40	Plenary talk "Operational Status of PLS-II and PAL-XFEL"	Dong-Eon Kim	PAL-XFEL
10:40~11:10	<b>Coffee break</b>		
11:10~11:40	Plenary talk" Status of RAON construction"	TBD	RISP/IBS
11:40~12:10	Plenary talk "KAERI's Developments of various medical/industrial/agricultural/basic science electron accelerators"	Yujong Kim	KAERI
12:10~13:30	<b>Lunch time</b>		
13:30~18:00	Parallel Sessions for Working Groups		
18:30~20:30	Forum Dinner		
January 30 (DCC Conference hall, Room 301)			
9:00 ~ 12:00	Parallel sessions for WG's		
12:00 ~ 13:00	<b>Lunch time</b>		
13:00 ~ 13:15	Summary of WG1	Park, Sungju	PAL/POSTECH
13:15 ~ 13:30	Summary of WG2	Sehwook Lee	KNU
13:30 ~ 13:45	Summary of WG3	Ob, Byung-Hoon	KAERI
13:45 ~ 14:00	Summary of WG4	Suk, Hyoung	GIST
14:00 ~ 14:15	Summary of WG5	Kim, Eun-San	Korea Univ. Sejong
14:15 ~ 14:30	Summary of WG6	Cho, Kihyeon	KISTI
14:30 ~ 14:45	Summary of WG7	Kwon, Hueok-Jung	KAERI
14:45 ~ 15:15	<b>Coffee break</b>		
15:15 ~ 15:45	Plenary talk "Korean Neutrino Observatory"	Seon-Hee Seo	Seoul Nat'l Univ.
15:45 ~ 16:15	Plenary talk "TBD"	Geoff Taylor	CoEPP, Australia
16:15 ~ 16:30	Closing remarks	Director of RISP	RISP/IBS
16:30 ~ 18:30	<b>Laboratory tour</b>		
January 31			
9:00 ~ 17:00	<b>Excursion in Gongju, Buyeo area (plan)</b>		

**WG1: Accelerator and its related technologies for photon science. Room 101**

January 29			
Time	Title	Speaker	Affiliation
<b>Session 1 Chair:</b>			
13:30 - 14:00	Emittance Exchange Program at KEK STF	Masao Kuriki	Hiroshima University, Japan
14:00 - 14:30	Status of Free Electron Lasers in SINAP	Bo Liu	SINAP, Shanghai
14:30 - 15:00	Sub-20-femtosecond timing jitter of PAL-XFEL	Chang-Ki Min	PAL, Korea
15:00 - 15:30	Novosibirsk Free Electron Laser Facility	Yaroslav Getmanov	Budker INP, Russia
15:30 - 16:00	<b>Coffee break</b>		
<b>Session 2 Chair:</b>			
16:00 - 16:30	Harmonic Lasing Self-seeded FEL at PAL-XFEL	In-Hyeok Nam	PAL, Korea
16:30 - 17:00	Recent Results on X-ray Generation at LUCX	Junji Urakawa	KEK, Japan
17:00 - 17:30	Accelerator R&D activities at PAL	Jang-Hui Han	PAL, Korea
17:30 - 18:00	The Commissioning and Early User Operation of Dalian VUV Free Electron Laser	Weiqing Zhang	Dalian Institute of Chemical Physics, China
January 30			
<b>Session 3 Chair:</b>			
9:00 - 9:30	New Multi-Bend Achromat Lattice Concepts and Their Applications to design of Hefei Advanced Light Source	Zhenghe BAI	USTC, Hefei, China
9:30 - 10:00	THz generation and another activities at LUCX	Alexander S. Aryshev	KEK, Japan
10:00 - 10:30	LATEST RESULTS ON THE 100-mA CW RF ELECTRON GUN FOR NOVOSIBIRSK ERL FEL	Vladimir Volkov	Budker INP, Russia
10:30 - 11:00	<b>Coffee break</b>		
11:00 - 11:30	Status of the DIRAMS C-band standing-wave accelerator for a radiotherapy machine	Heuijin Lim	DIRAMS, Korea
11:30 - 12:00	Structured Light from Helical Undulators	Shunya Matsuba	Hiroshima University, Japan

**WG2: Detector technology development. Room 207**

January 29			
Time	Title	Speaker	Affiliation
<b>Session 1 Chair: Sehwook LEE (KNU)</b>			
13:30-13:50	Large GEM foil production using the double mask method	Jason Lee	University of Seoul (UoS)
13:50-14:10	GEM (new ceramic GEM)	Shoji Uno	KEK
14:10-14:30	GEM (pEDM)	Seongtae Park	CAPP/IBS
14:30-14:50	GEM (large size GEM chambers for the CBM at FAIR)	Anand Dubey	VECC-Kolkata
14:50-15:10	LAMPS GEM based TPC R&D	Min Sang Ryu	IBS
15:10~15:40	<b>Coffee break</b>		
<b>Session 2 Chair: Jason LEE (UoS)</b>			
15:40-16:00	liquid argon TPC for neutrino experiment	Ken Sakashita	KEK
16:00-16:20	Liquid scintillator (neutrino)	Kyunggang Joo	Chonnam National University
16:20-16:40	Dual readout calorimeter	Tohru Takeshita	Shinshu University
16:40-17:00	Si-Tungsten sampling calorimeter for ALICE upgrade	Sanjib Muhuri	VECC-Kolkata
17:00-17:20	On the limits of the hadronic energy resolution of calorimeters	Sehwook Lee	Kyungpook National University (KNU)
January 30			
<b>Session 3 Chair:</b>			
9:00-9:20	The design and progress of the Central Detector of JUNO	Yuekun Heng	Chinese Academy of Sciences
9:20-9:40	5 $\mu$ m-Pore Microchannel-Plate and its performance	Shulin Liu	Chinese Academy of Sciences
9:40-10:00	The performances of the 20 inch MCP-PMT in China	Sen Qian	Chinese Academy of Sciences
10:00-10:20	<b>Coffee break</b>		
10:20-10:40	Research on Liquid Scintillator Cherenkov Detector	Ziyi Guo	Tsinghua Univ
10:40~11:00	PandaX-4T Dark Matter Detector	Jinkai Xia	Shanghai Jiaotong Univ
11:00~11:20	PandsX-III High Pressure Xenon TPC for the Neutrinoless Double Decay Search	Shaobo Wang	Shanghai Jiaotong Univ

### WG3: Accelerator technologies for industrial & medical applications. Room 102

January 29			
Time	Title	Speaker	Affiliation
<b>Session 1 Chair: Ken Takayama (KEK)</b>			
13:00-13:30	IFMIF-LIPAc	S. Maebara	ITER, Aomori Fusion Energy Center
13:30-14:00	Low Energy Muon Microscope	Dr. Nagatani	KEK J-PARC
14:00-14:30	Electron linacs for radiotherapy	Chuanxiang Tang/Hao Zha	Tsinghua University/China
14:30-15:00	Carbon Ion Radiotherapy	Guoqing Xiao/Jiawen Xia	IMP, China
15:00-15:30	Proton Radiotherapy	Kuanjun Fan/Deming Li	HUST/Sinap, China
15:30~16:00	<b>Coffee break</b>		
<b>Session 2 Chair: Dr. Tang Chuanxiang (Tsinghua University)</b>			
16:00-16:30	Towards a Hadron Driver for the Next Generation of Cancer Therapy	Ken Takayama	KEK, Japan
16:30-17:00	Full-Body PET Camera based on Liq. Xenon TPC technology	Prof. Tauchi	KEK, Japan
17:00-17:30	Compact radiation therapy machine with high power Laser system	M.Y. Jung	ETRI, Korea
17:30-18:00	Proton injector for synchrotron therapy machine	Shuxin Zheng/Qingzi Xing	Tsinghua University, China
January 30			
<b>Session 3 Chair: B.H.Oh (KAERI)</b>			
9:00-9:30	Electron Accelerator (or neutrons) for radiography	B.C. Lee	KAERI/Korea
9:30-10:00	Start of mutation breeding research using ion beam in Korea	Si-Yong Kang	KAERI/Korea
10:00-10:30	Irradiation electron linacs	Huaibi Chen	Tsinghua University/China
10:30-11:00	Linacs developed for Industry	Yunlong Chi	IHEP/China
11:00-11:30			
11:30~12:00	<b>Summary of WG3</b>		

<b>Remarks:</b>	<b>25mins talk + 5mins for Q&amp;A</b>
	<b>All speakers are cordially asked to submit your key slides (2~3 pages) before the workshop</b>

**WG4: Innovative Accelerator Techniques. Room 208**

<b>January 29</b>			
Time	Title	Speaker	Affiliation
<b>Session 1 Chair:</b>			
13:40-14:05	Development of the laser driven ion injector for the next generation heavy ion cancer therapy machine	Kiminori Kondo	QST
14:05-14:30	New Possibilities of Plasma Accelerator as Injector for CEPC	Jie Gao	IHEP
14:30-14:55	Compact charged particle accelerators for applications	SeungHee Park	Korea Univ.
14:55~15:30	<b>Coffee break</b>		
<b>Session 2 Chair:</b>			
15:30-15:55	Novel laser-plasma electron acceleration experiments at SJTU based on ionization injection and two-color laser pulses	Nasr Hafz	SJTU
15:55-16:20	Results of the laser-plasma acceleration research with the 20 TW/35 fs laser system at GIST	Hyyong Suk	GIST
16:20-16:45	TBD	Jaehoon Kim	KERI
16:45-17:10	Ion acceleration by shock waves and pulse-recycling TNSA	YoungKuk Kim	UNIST
<b>January 30</b>			
<b>Session 3 Chair:</b>			
9:00-9:25	Recent studies on plasma-based acceleration at IHEP	Dazhang LI	IHEP
9:25-9:50	Researches on laser-driven electron accelerators in Japan	K. Koyama	KEK
9:50-10:15	Generation of ion beams with narrow energy spread from a metal-polymer double layer target irradiated by an ultraintense laser pulse	Kitae Lee	KAERI
10:15~10:40	<b>Coffee break</b>		
10:40-11:05	Opportunities on dielectric laser accelerator on high-brightness radiation	Yen-Chieh Huang	Tsing Hua Univ. Taiwan
11:05-11:30	TBD	Myunghoon Cho	IBS/CoReIS
11:30~11:55	Radiation burst from laser-plasma interactions	Min Sup Hur	UNIST

**WG5: Accelerator and its related technologies for hadron (neutron) science. Room 204**

January 29			
Time	Title	Speaker	Affiliation
<b>Session 1 Chair:</b>			
13:30-13:50	Upgrade of Hokkaido University neutron source (HUNS)	Michihiro Furusaka	Hokkaido University
13:50-14:10	Status of the RIKEN Linac upgrade	Narushiko Sakamoto	RIKEN
14:10-14:30	Challenge and status of HIAF	Jiancheng YANG	IMP
14:30-14:50	Accelerator-driven compact neutron sources in Japan	Katsuya Hirota	Nagoya University
14:50-15:10	Compact neutron source Development with SKKUCY-13 Cyclotron	Prof. Mitra Ghergherehchi	SungKyunKwan University
15:10~15:40	<b>Coffee break</b>		
<b>Session 2 Chair:</b>			
15:40-16:00	Development of CW heavy ion linac at IMP	Xuejun YIN	IMP
16:00-16:20	Something new using ILC (international linear collider) other than e+ > e- collisions	Yoshihisa Iwashita	Kyoto University
16:20-16:40	A Plan for a Pulsed Neutron Source Based on the KOMAC 100-MeV Proton Linac	Hyuk-Joong Kwon	KAERI
16:40-17:00	BNCT	TBD	Dawonsys
17:00-17:20	Comceptual Design of SKKU 20 MeV Electron LINAC for Compcat Neutron Source	Seung-Wook SHIN	SungKyunKwan University
17:20-17:40	Current Status of a SC-ECRIS of the Rare Isotope Science Project -Low field experiment with 18GHz MW power	Yong-Hwan Kim	RISP/IBS
January 30			
<b>Session 3 Chair:</b>			
9:00-9:20	Construction and Preliminary Beam Test of RISP 81.25 MHz CW RFQ for Heavy Ions	Bum-Sik Park	RISP/IBS
9:20-9:40			
9:40-10:00			
10:00-10:20			
10:20-10:40			
10:40~11:00	<b>Coffee break</b>		

**WG6: Network & Computing. Room 209****January 29****Session 1 Chair: Tomoaki Nakamura**

Time	Title	Speaker	Affiliation
13:30-13:50	Networking and Computing in China	Fazhi Qi	IHEP, China
13:50-14:10	Grid Deployment at KEK: Status and Plan	Go Iwai	KEK, Japan
14:10-14:30	Networking in Korea	Buseong Cho	KISTI, Korea
14:30-14:50	Computing in Korea	Kihyeon Cho	KISTI, Korea
14:50-15:10	Status report from Tokyo Tier2 at ICEPP	Tomoe Kishimoto	ICEPP, Tokyo, Japan
15:10~15:40	<b>Coffee break</b>		

**Session 2 Chair: Kihyeon Cho**

15:40-16:00	Networking and Computing in Taiwan	Eric Yen	ASGC, Taiwan
16:00-16:20	Networking and Computing in Thailand	Burin Asavapibhop	Chulalongkorn University, Thailand
16:20-16:40	Belle II Computing	Doris Kim	Soongsil U., Korea
16:40-17:00	<u>CMS Tier-2</u>	Dongchul Son	KNU, Korea
17:00-17:20	<u>GSDC@KISTI</u>	Seo-Young Noh	KISTI, Korea
17:20~17:50	Networks for High Energy Physics: LHCOPN and LHCONE	Edoardo Martelli	CERN, Switzerland

**January 30****Session 3 Chair: Buseung Cho**

9:00~9:30	Status report in TEIN	ByungKyu Kim	TEIN*CC, Korea
9:30~10:00	Network in Pohang Accelerator laboratory	Jihwa Kim	PAL, Korea
10:00~10:30	CoEPP Tier 2 in Melbourne	Sean Crosby and Lucien Boland	U. of Melbourne, Australia
10:30~11:00	<b>Coffee break</b>		

**Session 4 Chair: Gang Chen**

11:00~12:00	Discussion		Gang Chen
-------------	------------	--	-----------

**WG7: Cryogenics, Cryomodule and Superconducting Technology for Accelerator. Room 205**

January 29			
Time	Title	Speaker	Affiliation
<b>Session 1 Chair: T.S. Datta (IUAC)</b>			
13:30-13:50	Current Status on Cavity testing and cryomodule for SNS project at RRCAT	S. C. Joshi	RRCAT
13:50-14:10	Superconducting cavity development for RAON	TBD	RISP
14:10-14:30	Operation of Cryomodules for Chinese ADS Front-end Demo Linac	TBD	IMP
14:30-14:50	Progress of CEPC cryogenic system	Jianqing Zhang	IHEP
14:50-15:10	A plan of the HWR superconducting linac development at KOMAC	Han-Sung Kim	KOMAC
15:10~15:40	<b>Coffee break</b>		
<b>Session 2 Chair: H. J. Kwon (KAERI)</b>			
15:40-16:00	The HWRs for Chinese ADS project	Weiming YUE	IMP
16:00-16:20	The operation status of cryogenic system and SRF cavities and in-house developed multichannel transfer line	Huang-Hsiu Tsai	NSRRC
16:20-16:40	Performance of Injector Cryomodule for E- linac project at VECC. Kolkata	Vaishali Nayek	VECC
16:40-17:00	Introduction of PAPS cryogenic system	Shaopeng Li	IHEP
17:00-17:20	Current status of cryomodule development for SCL3 of RAON	Minki Lee	RISP
January 30			
<b>Session 3 Chair: Shaopeng Li (IHEP)</b>			
9:00-9:20	Operation experience on Cryo-network system for Superconducting LINAC at IUAC Delhi	T. S. Datta	IUAC
9:20-9:40	Conceptual design of CEPC superconducting RF system	Jiyuan Zhai	IHEP
9:40-10:00	Current status and challenges of cryogenic systems for RAON accelerator	Tae Kyung Ki	RISP
10:00-10:20	The current status of superconducting magnet for IF(In-flight Fragment) separator of RAON	Sukjin Choi	RISP
10:20-10:40			
10:40~11:00	<b>Coffee break</b>		