

## AFAD 2018 Schedule

### January 28

17:00~ 20:00	Registration and reception (DCC Room 201)
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### January 29 (DCC Conference hall, Room 301)

8:30~9:00	Registration (DCC 1F)
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9:00~9:10	Welcome remarks
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Plenary session chair: Youngjoon Kwon, Yonsei Univ.			
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09:10~9:40	Plenary talk "Status and prospect of KEK"	Yasuhiro Okada	KEK
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9:40~10:10	Plenary talk "Status and Progress with the High Energy Electron Positron Collider (CEPC)"	Xinchou Lou	IHEP
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10:10~10:40	Plenary talk "Operational Status of PLS-II and PAL-XFEL"	Dong-Eon Kim	PAL-XFEL
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10:40~11:10	<b>Photo Session and Coffee break</b>		
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11:10~11:40	Plenary talk" Status of RAON construction"	Young-Kwan Kwon	RISP/IBS
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11:40~12:10	Plenary talk "KAERI's Developments of various medical/industrial/ agricultural/basic scientific electron accelerators"	Yujong Kim	KAERI
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12:10~13:30	<b>Lunch time</b>		
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13:30~18:00	Parallel Sessions for Working Groups (Room 101~107)		
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18:30~20:30	Forum Dinner (DCC 2F Grand Ballroom)		
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### January 30 (DCC Conference hall, Room 301 for afternoon sessions)

9:00 ~ 12:00	Parallel sessions for WG's (Rooms 101~107)		
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12:00 ~ 13:00	<b>Lunch time</b>		
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13:00 ~ 13:15	Summary of WG1	Park, Sungju	PAL/POSTECH
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13:15 ~ 13:30	Summary of WG2	Lee, Sehwook	KNU
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13:30 ~ 13:45	Summary of WG3	Ob, Byung-Hoon	KAERI
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13:45 ~ 14:00	Summary of WG4	Suk, Hyoung	GIST
14:00 ~ 14:15	Summary of WG5	Moses Chung	UNIST
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>		
	Plenary session chair: Eunil Won Korea Univ.		
15:15 ~ 15:45	Plenary talk "Korean Neutrino Observatory"	Seon-Hee Seo	Seoul Nat'l Univ.
15:45 ~ 16:15	Plenary talk "Computing for High Energy Particle Physics"	Geoff Taylor	CoEPP, Australia
16:15 ~ 16:25	Introduction to sponsoring companies	Jongwon Kim	RISP/IBS
16:25 ~ 16:35	Closing remarks	Director of RISP	RISP/IBS
16:35 ~ 18:30	<b>Laboratory tour (SRF Test Facility at Munji campus of KAIST)</b>		
<b>January 31</b>			
9:00 ~ 17:00	<b>Excursion in Gongju, Buyeo area (Bus in front of DCC)</b>		

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

January 29			
Time	Title	Speaker	Affiliation
<b>Session 1 Chair: Dong-Eon Kim (PAL, Korea)</b>			
13:30 - 13:55	Emittance Exchange Program at KEK STF	Masao Kuriki	Hiroshima University, Japan
13:55 - 14:20	Status of Free Electron Lasers in SINAP	Bo Liu/ZHAO, Zhentang	SINAP, China
14:20 - 14:45	Sub-20-femtosecond timing jitter of PAL-XFEL	Chang-Ki Min	PAL, Korea
14:45 - 15:10	NOVOSIBIRSK FREE ELECTRON LASER FACILITY	Yaroslav Getmanov	Budker INP, Russia
15:10 - 15:40	<b>Coffee break</b>		
<b>Session 2 Chair: Dong-Eon Kim (PAL, Korea)</b>			
15:40 - 16:05	Free Electron Laser based Delhi Light Source Project at IUAC, NewDelhi	Bhuban Kumar Sahu	Inter University Accelerator Centre, India
16:05 - 16:30	Recent Results on X-ray Generation at LUCX	Junji Urakawa	KEK, Japan
16:30 - 16:55	Development of Coherent THz Radiation Source and MIR-FEL in Thailand	Sakhorn Rimjaem	Chiang Mai University, Thailand
16:55 - 17:20	Accelerator R&D activities at PAL	Jang-Hui Han	PAL, Korea
17:20 - 17:45	Study of BINP damping ring performance with the streak camera	Oleg Meshkov	Budker INP, Russia
January 30			
<b>Session 3 Chair: Heung-Sik Kang (PAL, Korea)</b>			
9:00 - 9:25	Harmonic Lasing Self-seeded FEL at PAL-XFEL	In-Hyeok Nam	PAL, Korea

9:25 - 9:50	LUCX pre-bunched e-beam generation and its application to THZ experimental studies	Alexander S. Aryshev	KEK, Japan
9:50 - 10:15	Latest results on the 100-mA CW RF Electron Gun for Novosibirsk ERL FEL	Vladimir Volkov	Budker INP, Russia
10:15 - 10:45	<b>Coffee break</b>		
<b>Session 4 Chair: Heung-Sik Kang (PAL, Korea)</b>			
10:45 - 11:10	Status of the DIRAMS C-band standing-wave accelerator for a radiotherapy machine	Heuijin Lim	DIRAMS, Korea
11:10 - 11:35	The Commissioning and Early User Operation of Dalian VUV Free Electron Laser	Weiqing Zhang	Dalian Institute of Chemical Physics, China
11:35 - 12:00	Structured Light from Helical Undulators	Shunya Matsuba	Hiroshima University, Japan

## WG2: Detector technology development. Room 102

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	Ceramic GEM	Shoji Uno	KEK
14:10-14:30	GEM-based polarimeter detector development for storage ring proton electric dipole moment measurement	Seongtae Park	CAPP/IBS
14:30-14:50	LAMPS GEM based TPC R&D	Min Sang Ryu	IBS
14:50-15:10			
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	NEOS Detector for Measuring Energy of Reactor Neutrinos	Young Ju Ko	CUP/IBS
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: Seongtae PARK (CAPP/IBS)</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 mass production and batch test of 20 inch MCP-PMT for JUNO	Sen Qian	Chinese Academy of Sciences
10:00-10:20	<b>Coffee break</b>		

10:20-10:40	Research on Liquid Scintillator Cherenkov Detector for Neutrino Physics	Ziyi Guo	Tsinghua Univ
10:40~11:00	PandaX-4T Dark Matter Detector	Jinkai Xia	Shanghai Jiaotong Univ
11:00~11:20	PandaX-III High Pressure Xenon TPC for the Neutrinoless Double Decay Search	Shaobo Wang	Shanghai Jiaotong Univ

## WG3: Accelerator technologies for industrial & medical applications. Room 103

January 29			
Time	Title	Speaker	Affiliation
<b>Session 1 Chair: Ken Takayama (KEK)</b>			
13:00-13:30	Present status of Cryomodule and Cryoplant for LIPAc	K. Sakamoto	ITER, Aomori Fusion Energy Center
13:30-14:00	Transmission- and Scanning- Muon Microscopy	Dr. Nagatani	KEK J-PARC
14:00-14:30	Electron linacs for radiotherapy	Chuanxiang Tang/Hao Zha	Tsinghua University/China
14:30-15:00	Development of a superconducting cyclotron based proton therapy system at HUST	Kuanjun Fan/Deming Li	HUST/Sinap, China
15:00-15:30	Carbon Ion Radiotherapy	Guoqing Xiao/Jiawen Xia	IMP, 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	Toshiaki Tauchi	KEK, Japan
17:00-17:30	Laser driven proton acceleration enhancement by using nanophotonic butterfly wing targets	Moon Young Jung	ETRI, Korea
17:30-18:00	Physical design of the proton linac injector for the synchrotron based proton therapy system in China	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	Medical Imaging and Therapy Radioisotope Production Techniques with High Current Cyclotrons	W. Gelbart, K. Butalag, RR Johnson	Advanced System Design Ltd/TeamBest/U. of British Columbia

10:00-10:30	Start of mutation breeding research using ion beam in Korea	Si-Yong Kang	KAERI/Korea
10:30-10:50	<b>Coffee break</b>		
10:50-11:20	Irradiation electron linacs	Huaibi Chen	Tsinghua University/China

## WG4: Innovative Accelerator Techniques. Room 104

January 29			
Time	Title	Speaker	Affiliation
<b>Session 1 Chair: Kazuyoshi Koyama (Univ. Tokyo/KEK)</b>			
13:40-14:05	Development of the laser driven ion injector for the new generation heavy ion cancer therapy	Kiminori Kondo	QST, Japan
14:05-14:30	Compact charged particle accelerators for applications	Seong Hee Park	Korea Univ., Korea
14:30-14:55	Ion acceleration by shock waves and pulse-recycling TNSA	Young-Kuk Kim	UNIST, Korea
14:55~15:30	<b>Coffee break</b>		
<b>Session 2 Chair: Seong Hee Park (Korea Univ.)</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, China
15:55-16:20	Laser wakefield accelerator for medical application at KERI	Jaehoon Kim	KERI, Korea
16:20-16:45	Laser Plasma Acceleration using the evolution of plasma wave and nanoparticle	Myung-Hoon Cho	IBS/CoReIS, Korea
<b>January 30</b>			
<b>Session 3 Chair: Yen-Chieh Huang (Tsing Hua Univ., Taiwan)</b>			
9:00-9:25	Recent studies on plasma-based acceleration at IHEP	Dazhang LI	IHEP China
9:25-9:50	Researches on laser-driven electron accelerators in Japan	Kazuyoshi Koyama	Univ. Tokyo/KEK, Japan
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, Korea
10:15~10:40	<b>Coffee break</b>		
<b>Session 4 Chair: Dazhang Li (IHEP)</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	Laser-plasma-based THz radiation sources and their applications	Hyyong Suk	GIST, Korea
11:30~11:55	Radiation burst from laser-plasma interactions	Min Sup Hur	UNIST, Korea

## WG5: Accelerator and its related technologies for hadron (neutron) science. Room 105

January 29			
Time	Title	Speaker	Affiliation
<b>Session 1 Chair: Moses Chung (UNIST)</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 high intensity heavy ion accelerator facility (HIAF) in China	Jiancheng YANG	IMP
14:30-14:50	Accelerator-driven compact neutron sources in Japan	Katsuya Hirota	Nagoya University
14:50-15:10	Design of 6 MeV compact cyclotron for neutron based safety inspection	Jong-Seo Chai	SungKyunKwan University
15:10~15:40	<b>Coffee break</b>		
<b>Session 2 Chair: Narushiko Sakamoto (RIKEN)</b>			
15:40-16:00	Development of CW heavy ion linac at IMP	Xuejun YIN	IMP
16:00-16:20	A Plan for a Pulsed Neutron Source Based on the KOMAC 100-MeV Proton Linac	Hyuk-Joong Kwon	KAERI
16:20-16:40	Development of BNCT at DawonSys	Dong-Soo Kim	DawonSys
16:40-17:00	Current Status of the 28 GHz SC-ECRIS for RISP	Yong-Hwan Kim	RISP/IBS
17:00-17:20	Compact neutron source Development with SKKUCY-13 Cyclotron	Mitra Ghergherehchi	SungKyunKwan University
January 30			
<b>Session 3 Chair: Jiancheng Yang (IMP)</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	The current status and future plans of Versatile Ion Beam Accelerator Facility	Byung Seob Lee	KBSI

9:40-10:00	BEST 70P Cyclotron beam commissioning at LN Legnaro	Vladimir Ryjkov	Best Cyclotron Inc.
10:00-10:30	<b>Coffee break</b>		
10:30-10:50	Status of an Electron Beam Ion Source for Charge Breeding for RISP	Young-Ho Park	RISP/IBS
10:50-11:10	An X-band Compact Electron Linac Development for a Neutron Radiography	Seung-Wook SHIN	SungKyunKwan University

## WG6: Network & Computing. Room 106

January 29			
Session 1 Chair: Tomoaki Nakamura			
Time	Title	Speaker	Affiliation
13:30-13:50	Networking and Computing Status in IHEP/China	Fazhi QI	IHEP, China
13:50-14:10	Grid Deployment at KEK: Status and Plan	Go Iwai	KEK, Japan
14:10-14:30	KREONET: Research Networking in Korea	Buseung 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, Utokyo, Japan
15:10~15:40	<b>Coffee break</b>		
Session 2 Chair: Kihyeon Cho (KISTI)			
15:40-16:00	Research infrastructure development in Academia Sinica (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 System	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 (KISTI)			
9:00~9:30	Status report in TEIN	ByungKyu Kim	TEIN*CC, Korea
9:30~10:00	NDN for Large-scale Scientific Data and Its Status on HEP	Huhnuk Lim	KISTI, 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>		
	<b>Session 4 Chair: Gang Chen</b>		
11:00~12:00	Discussion		Gang Chen

## WG7: Cryogenics, Cryomodule and Superconducting Technology for Accelerator. Room 107

**January 29**

Time	Title	Speaker	Affiliation
<b>Session 1 Chair: Hirotaka Nakai (KEK)</b>			
13:30-13:50	Status of Vertical Test Facility for HWR and QWR at RISP	JuWan Kim	RISP
13:50-14:10	Operation of Cryomodules for Chinese ADS Front-end Demo Linac	Feng Bai	IMP
14:10-14:30	Progress of CEPC cryogenic system	Jianqing Zhang	IHEP
14:30-14:50	A plan of the HWR superconducting linac development at KOMAC	Han-Sung Kim	KOMAC
14:50-15:10	The HWRs for Chinese ADS project	Weiming Yue	IMP
15:10~15:40	<b>Coffee break</b>		
<b>Session 2 Chair: H. J. Kwon (KAERI)</b>			
15:40-16:00	Report on the Asian School on Superconductivity and Cryogenics for Accelerators (ASSCA2017)	Hirotaka Nakai	KEK
16:00-16:20	Cryogenic system of the SuperKEKB IR final focusing SC magnets	Zhanguo Zong	KEK
16:20-16:40	Introduction of PAPS cryogenic system	Shaopeng Li	IHEP
16:40-17:00	Current status of cryomodule development for SCL3 of RAON	Minki Lee	RISP
<b>January 30</b>			
<b>Session 3 Chair: Shaopeng Li (IHEP)</b>			
9:00-9:20	Conceptual design of CEPC superconducting RF system	Jiyuan Zhai	IHEP
9:20-9:40	Progress of Linear IFMIF Prototype Accelerator (LIPAc) in collaboratio with EU	Keishi Sakamoto	QST Rokkasho
9:40-10:00	Current status and challenges of cryogenic systems for RAON accelerator	Tae Kyung Ki	RISP
10:0~10:30	<b>Coffee break</b>		