Program November 13th（Mon.）

9:00- 9:30	**Registration**		
9:30 - 9:45	**Opening**		
9:45-10:45	**Session 1 – Physics**		Chair: Yoshinori Sakurai, Ian Postuma
	S1-1	Pablo Torres-Sánchez	On the upper limit of neutron energies suitable for BNCT
	S1-2	Sakai Yusuke	Dosimetrically effective fast neutrons for boron neutron capture therapy (BNCT) of malignant melanoma
	S1-3	Ricardo Luis Ramos	Thermal scattering libraries in neutron transport for BNCT dosimetry
	S1-4	Ian Postuma	Neutron beam tailoring for clinical BNCT: from physical parameters optimization to dose distribution evaluations in patient and in treatment room
10:45-11:05	**Break**		
11:05-12:35	**Session 2 - Accelerator System**		Chair: Hiroaki Kumada, Hanna Koivunoro
	S2-1	Hiroaki Kumada	Characteristic measurements for neutron beam of the linac-based neutron source for BNCT device in University of Tsukuba
	S2-2	Sergey Taskaev	Novosibirsk accelerator neutron source for BNCT
	S2-3	Kazuki Tsuchida	Compact Accelerator-Driven BNCT System Used Sealed Lithium Target
	S2-4	Wei-Lin Chen	Optimal Composition of LiF-doped Neutron Moderator in Li-target-based AB-BNCT
	S2-5	Hanna Koivunoro	Comparison of nuBeam and FiR 1 neutron beam parameters
	S2-6	Valeria Monti	Characterization of the linac based photonuclear thermal neutron source E_LIBANS
12:35-13：35	**Lunch**		
13:35-14:35	**Poster Session 1**		Chair: Hiroyuki Nakamura, Natsuko Kondo, Minoru Suzuki, Takushi Takata
14:35-14:40	**Break**		
14:40-15:40	**Session 3 - Biology 1**		Chair: Hiroyuki Michiue, Andrea Monti Hughes
	S3-1	Nicoletta Protti	BNCT irradiation of protein aggregates to evaluate the potentialities of NCT in the treatment of Alzheimer's Disease
	S3-2	Tooru Andoh	Contribution of L-type amino acid transporter-1 in clear cell sarcoma to accumulation of p-borono-L-phenylalanine in vitro and in vivo
	S3-3	Andrea Monti Hughes	BNCT preliminary studies in an oral cancer model that allows for the study of tumor control, mucositis in precancerous tissue and development of second primary tumors: Characterization of the 8-week cancerization model
	S3-4	Hiroyuki Michiue	The next generation Boron agents with BSH fused Cell Penetrating Peptide toward clinical application
15:40-16:00	**Break**		
16:00-17:15	**Session 4- Ongoing Projects and Future in BNCT**		Chair: Minoru Suzuki, Iiro Auterinen
	S4-1	Yoshinori Sakurai	Present status and future plan for physical engineering and medical physics for BNCT in KURRI
	S4-2	Edyta Michaś	INTERDYSCYPLINARY APPROACH TO THE BORON NEUTRON CAPTURE THERAPY AT MARIA RESEARCH REACTOR (POLAND)
	S4-3	Noah Smick	Features and present status of the Neutron Therapeutics nuBeam™ BNCT system to be installed at Helsinki University Hospital
	S4-4	Daniel Quah	Would you pay from your own pocket to have Boron Neutron Capture Therapy in Japan? – A survey of Singaporeans
	S4-5	Iiro Auterinen	Global overview to the clinical BNCT facility development
17:15-18:00	**Discussion 1**		

Poster Sessison 1

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Chemistry	Chair: Hiroyuki Nakamura		Seminor room 1&2
	P1-1	Goeun Choi	Sodium Borocaptate Nano Drug Delivery System for Boron Neutron Capture Therapy
	P1-2	CHUNLEI BI	Verification of boron compounds concentration measurement using LC/MS for combination of boronophenylalanine (BPA) and borocaptate (BSH) in rat plasma
	P1-3	Tomáš Jelínek	New potential BNCT agent: Chemistry of $[B_{10}H_{10}]^{2-}$
	P1-4	Jun Kawamura	Preparation of boron cluster encapsulating liposomes using microflow system
	P1-5	Satoshi Dowaki	Suppression of Melanoma Metastasis by Kojic Acid Modified Carborane
Biology	Chair: Natsuko Kondo		Seminor room 1&2
	P2-1	Rui Akayama	Cell Survival and DNA-double-strand-breaks in Glioblastoma Cell Lines with Different p53 Status after Neutron Irradiation and Exposure to DNA-alkylating Agent
	P2-2	Yoshitaka Matsumoto	Folate-modified cyclodextrin improves the intratumoral accumuration of existing boron compounds
	P2-3	Kazuyo Igawa	Evaluation Scheme of Boron 10 Compound for Accelerator-based Boron Neutron Capture Therapy
Medicine	Chair: Minoru Suzuki		Seminor room 1&2
	P3-1	Takuya Fujmoto	Evaluation of Boron Neutron Capture Therapy for Leiomyosarcoma
	P3-2	Keita Endo	Boron analysis and imaging by using Micro-PIXE/PIGE(Particle Induced X/γ-ray Emission)
Medical Physics	Chair: Minoru Suzuki		Seminor room 1&2
	P4-1	Yi-Wei Chen	The impact of target positioning on dose in boron neutron capture therapy for brain tumor
	P4-2	Pei-Yi Lee	Dosimetry calculation for BNCT using medical image-based lattice models with coarse and fine structures
Dosimetry	Chair: Takushi Takata		Seminor room 3&4
	P5-1	Xingcai Guan	Performance study of the neutron flux monitors from 20 keV to 1 MeV using accelerator-based BNCT neutron sources
	P5-2	Moe Shinohara	Experimental verification of real-time gamma-ray spectrum / dose monitor - Measurement in a fuel strage room-
	P5-3	Shingo Tamaki	Improvement of a liquid moderator based neutron spectrometer for BNCT
	P5-4	Koki Tochitani	Gamma-ray dose measurement in neutron/gamma-ray mixed field using radio-photoluminescence glass dosimeter and two kinds of filter
	P5-5	Kentaro Baba	GPU-based optical photon transport simulation system for the SOF detector optimization
	P5-6	M. El Ais	Monte Carlo study of a CdZnTe detector response to the neutron and gamma background in a BNCT treatment room
	P5-7	Agustina Portu	Enhanced resolution neutron autoradiography: UV-C sensitization of different nuclear track detectors to form imprints of biological samples
	P5-8	Carolina Vidal	BNCT-AR: Software development for the analysis of histological and autoradiographic images

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9:00-10:15	**Session 5 - Chemistry**		Chair: Makoto Shirakawa, Vincent Jallet
	S5-1	Makoto Shirakawa	Improvement of encapsulation method of boron compounds for development of DDS formulation at high boron assembly
	S5-2	Satomu Ishii	Development of disulfide-bridged boron cluster-maleimide (SSMID) and identification of its conjugation sites on albumin
	S5-3	Fumiko Nakagawa	Development of boron cluster containing water-soluble folate derivatives for BNCT
	S5-4	Aoi Isono	Design and synthesis of new membrane permeable boron carriers for BNCT based on the pepducin technology
	S5-5	Vincent Jallet	Multifunctional silica nanoparticles for cancer treatment by BNCT
10:15-10:35	**Break**		
10:35-12:05	**Session 6 - Biology 2**		Chair: Shoji Imamichi, Agustina Mariana Portu
	S6-1	Shin-ichiro Masunaga	Radio-Sensitivity of Pimonidazole-Unlabeled Intratumor Quiescent Cells to γ-Rays, Accelerated Carbon Ion Beams and Boron Neutron Capture Reaction (BNCR)
	S6-2	Shoji Imamichi	Investigation of biological effects of accelerator-based BNCT system in NCC
	S6-3	Aleksandr Kichigin	Radiobiological studies on Vacuum Insulated Tandem Accelerator (VITA) for BNCT.
	S6-4	Alexander Zaboronok	Accelerator-based neutron capture therapy: in-vitro efficacy evaluation and in-sample dosimetry using gold nanoparticles
	S6-5	María Pedrosa	Neutron radiobiology experiments and new weighting factors for improving Boron Neutron Capture Therapy treatment planning
	S6-6	Agustina Portu	BNCT + Electroporation: an autoradiographic analysis
12:05-13:05	**Lunch**		
13:05-14:15	**Poster Session 2**		Chair: Hiroaki Kumada, Hiroki Tanaka, Yoshinori Sakurai
14:15-14:20	**Break**		
14:20-15:50	**Session 7 - Medical Physics**		Chair: Takushi Takata, Ming-Chen Hsiao
	S7-1	Haiyan Yu	Computational dosimetry study for the limb osteosarcoma case under inhomogeneous structure and different voxel sizes
	S7-2	Takushi Takata	Dosimetric Comparison of Total Scalp Irradiation in Boron Neutron Capture Therapy Using Thermal and Epithermal Neutron Beams
	S7-3	Katia Alikaniotis	BNCT neutron dose boost for brain tumors in radiotherapy
	S7-4	Ryoichi Hinoto	Dosimetric influence of respiratory motion in lung boron neutron capture therapy
	S7-5	Bill Park	Image guided patient positioning for the nuBeam™ BNCT system
	S7-6	Takahiro Onishi	Evaluation of the dose given to a patient's body outside the irradiation field for the iBNCT neutron source
15:50-16:10	**Break**		
16:10-17:25	**Session 8 – Medicine**		Chair: Natsuko Kondo, Yi-Wei Chen
	S8-1	Shin-Ichi Miyatake	Boron neutron capture therapy with the combination of successive bevacizumab treatments for recurrent malignant gliomas -A pilot study.
	S8-2	Natsuko Kondo	Re-irradiation by combination of boron neutron capture therapy and IMRT for radiation-induced glioblastoma: a case report
	S8-3	Tien-Li Lan	Salvage Boron Neutron Capture Therapy (BNCT) for the First Case of Recurrent Glioblastoma in Taiwan
	S8-4	Teruhito Aihara	BNCT for Head and Neck Cancer : The history of our institution
	S8-5	Minoru Suzuki	Boron neutron capture therapy (BNCT) for malignant thoracic tumors
17:25-18:05	**Discussion 2**		
18:05-18:15	**Break**		
18:15-20:15	**Dinner**		

Poster Sessison 2

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Accelerator System	Chair: Hiroaki Kumada, Hiroki Tanaka		Seminor room 3&4
	P6-1	Yuka Fujiwara	Development of an extended beam collimator for the linac-based neutron source for BNCT in University of Tsukuba
	P6-2	Daiki Furuzawa	Development of high heat removal technique for a sealed lithium target
	P6-3	Kazuya Sato	Development of Beam Shaping Assembly for BNCT system in Nagoya University
	P6-4	Masahiro Tanoshita	Pre-collimator Design for An Epi-thermal Neutron Source for BNCT Researches with A DT Neutron Source
	P6-5	Naoto Hagura	A feasibility study of a new neutron-source facility by reusing the reactor pool under decommissioning
	P6-6	Alexandr Makarov	Diagnostics of the high power proton beam in a tandem accelerator with vacuum insulation
	P6-7	A. Badrutdinov	Investigation of the long-term exposure of a high power proton beam on the Ta-substrate of a neutron-generating target
	P6-8	Alexey Koshkarev	Development and implementation of the automation system of the ion source for BNCT
	P6-9	Yaroslav Alexandrovich Kolesnikov	Measurement of the space charge effect of a negative hydrogen ion beam
	P6-10	A. Badrutdinov	In-situ observation of blistering during irradiation of metals by protons
	P6-11	Ivan Shchudlo	Measurement of the emittance of negative hydrogen ion beam injected into vacuum insulation tandem accelerator
	P6-12	Timofey Bykov	Data processing automatization for diagnostics of Budker Epithermal Neutron Source
	P6-13	Jianfei Tong	Thermal-Hydraulic Design of Neutron Production Target for BNCT based on 3.5MeV RFQ Accelerator
	P6-14	Chaobin Chen	R&D of BNCT in HEC
Reactor System	Chair: Yoshinori Sakurai		Seminor room 1&2
	P7-1	Łukasz Murawski	BNCT RESEARCH BEAM IN MARIA REACTOR (NCBJ, POLAND)
	P7-2	Mikhail Anikin	Feasibility study of IRT-T core configuration optimization for BNCT
	P7-3	Pavel Molodov	Modernization of IRT-T research reactor for BNCT applications
Prompt Gamma-ray Analysis	Chair: Yoshinori Sakurai		Seminor room 1&2
	P8-1	K. Babaiyan	Design of PGNAA facility at TRR for boron measurement
	P8-2	Alexander Winkler	Guide to spectra analysis with photon counting CdTe/ CdZnTe detectors in BNCT
	P8-3	Kentaro Minami	Design of a proto-type array detector using GAGG scintillator for BNCT-SPECT
	P8-4	Jun Goto	Study of charged particle activation analysis -optimal configuration of γ-ray detectors for a sample with strong background from positron annihilation-

Program November 15th（Wed.）

9:00-10:30	**Session 9 - Prompt Gamma-ray Analysis**	Chair: Hiroki Tanaka, Alexander Winkler	
	S9-1	Hiroki Tanaka	Development of real-time neutron detector and prompt gamma-ray imaging monitor for BNCT
	S9-2	Matìas Valero	Simulation approach for the adequation of the detection region in the PGNAA facility design at RA-3
	S9-3	Ryosuke Ohya	Experimental demonstration of real time measurement of 10B concentration for BNCT
	S9-4	Setareh Fatemi	Monte Carlo study of the imaging performances of a 20x20x20 mm^3 CdZnTe detector prototype
	S9-5	Chunhui Gong	GPU-based Compton Camera imaging of prompt gamma rays for melanoma case in BNCT
	S9-6	Alexander Winkler	Tomographic reconstruction of a realistic ^{10}B target in BNCT
10:30-10:50	**Break**		
10:50-12:20	**Session 10 – Dosimetry**	Chair: Naonori Ko, Dmitrii Alexandrovich Kasatov	
	S10-1	Dmitrii Kasatov	Activation foil measuring on accelerator based neutron source
	S10-2	Kiyotaka Akabori	A real-time neutron monitor for BNCT
	S10-3	Ryohei Uchida	Investigation of applicability of polymer gel dosimeters with Li compounds to dosimetry in boron neutron capture therapy
	S10-4	James Vohradsky	Evaluation of silicon and diamond based microdosimetry for boron neutron capture therapy applications
	S10-5	Naonori Ko	Investigation of SOI microdosimeter in Boron Neutron Capture Therapy
12:20-12:35	**Closing**		
12:35-	**Lunch**		