

## UCANS V

Tuesday		12 May 2015
15:00	15:30	REGISTRATION
15:30	15:45	Welcome address
15:45	16:15	C. Andreani, Status and Perspectives of ISIS facilities
16:15	16:45	T. Ino, KEK activity on J-PARC neutron facility and compact neutron source
16:45	17:15	F. Mezei, European Spallation Source ESS: principles, status, perspectives
17:15	19:15	Welcome Cocktail

Wednesday		13 May 2015
8:00	8:30	bus transport Padova-LNL
9:00	9:50	REGISTRATION
9:50	10:05	Welcome
		Session <b>NUCLEAR ASTROPHYSICS and NUCLEAR DATA</b> Chair.....
10:05	10:35	F. Käppeler, <i>Astrophysical quests for neutron capture data of unstable nuclei</i>
10:35	10:55	C. Beinrucker, <i>Neutron-capture Cross-section of 69,71Ga and 63,65Cu at 25 and 90 keV</i>
10:55	11:25	Coffee break
11:25	11:45	W. Mondelaers, <i>Fostering European Collaborations: EUFRAT and work done at JRC-IRMM</i>
11:45	12:05	P. Schillebeeckx, <i>Characterization of nuclear material by neutron resonance transmission analysis</i>
12:05	12:25	Y. Ikeda, <i>Measurement of neutron diffraction with compact neutron source RANS</i>
12:25	12:45	R. Granada, <i>Measurement of the total cross section of heavy water in the 0.1 meV - 1 eV energy range at 20 and 50 °C</i>
12:45	13:05	C. Massimi, <i>Experimental program on Nuclear Astrophysics at the CERN n_TOF facility</i>
13:05	13:25	G. Martin Hernandez, <i>BELINA – Beam Line for Nuclear Astrophysics at LNL</i>
13:25	13:45	M. Costa, <i>Neutron sources based on medical Linac</i>
13:45	14:45	Lunch
		Session <b>NEUTRON DETECTION</b> Chair.....
14:45	15:05	M. Rebai, <i>A single-crystal Diamond Detector Matrix for DT plasma diagnostic</i>
15:05	15:25	Y. Yang, <i>The research of large area neutron sensitive MCP at Tsinghua University</i>
		Session <b>MEDICAL APPLICATIONS</b> Chair.....
15:25	15:45	I. Porras, <i>Monte Carlo Simulation of Accelerator-Based Epithermal Neutron Beams for Neutron Capture Therapy</i>
15:45	16:05	I. Postuma, <i>BNCT neutron beam from accelerator</i>
16:05	16:25	T. Nakamoto, <i>Development of a linac-based neutron source for BNCT with beryllium three-layer neutron target system</i>
16:25	16:40	Coffee break
16:40	17:55	<b>POSTER SESSION*</b>
17:55	19:25	LNL visit
19:25	19:55	Bus LNL-Padova
20:15		Programme Committee Dinner

Thursday		14 May 2015
8:30	9:00	bus transport Padova-LNL
		Session <b>NEUTRON SOURCE FACILITIES</b> Chair.....
9:00	9:20	G. Prete, <i>The SPES project at LNL</i>
9:20	9:50	T. Brueckel, <i>The Helmholtz Neutron Strategy: Towards a High Brilliance Neutron Source</i>
9:50	10:10	F. Sordo, <i>ESS-BILBAO: On going activities</i>
10:10	10:30	J. Wyss, <i>NEPIR: A neutron irradiation facility at the SPES high intensity 70 MeV Cyclotron of LNL</i>
10:30	11:00	Coffee break
11:00	11:20	F. Villa, <i>Multipurpose applications of the accelerator-based neutron source GENEPI2</i>
11:20	11:40	B. Bromberger, <i>Development of a compact, intense and ns-pulsed neutron source for the application in fast neutron radiography and tomography</i>
11:40	12:00	D. Baxter, <i>The LENS facility in 2015</i>
12:00	12:20	V. Shvetsov, <i>Intense Resonance Neutron Source at JINR: Status and Perspectives</i>
12:20	12:40	Y. Otake, <i>RIKEN accelerator-driven compact neutron source RANS</i>
12:40	13:00	Y. Kiyanagi, <i>Recent activity of Japan Collaboration of Accelerator driven Neutron Sources (JCANS)</i>
13:00	13:20	M. Furusaka, <i>Current Status of the Hokkaido University Neutron Source (HUNS)</i>
13:20	14:20	Lunch
14:20	14:50	S. Mattiazzo, <i>LNL irradiation facilities for radiation damage studies</i>
14:50	14:50	Session <b>MODERATOR NEUTRONICS</b> Chair.....
14:50	15:10	K. Batkov, <i>Design of neutron moderators for ESS</i>
15:10	15:30	E. Iverson, <i>A Moderator Demonstration Facility at the SNS</i>
15:30	15:50	T. Cronert, <i>High Brilliant Neutron Source - Juelich</i>
15:50	16:20	Coffee break
16:20	16:40	K. Thomsen, <i>Moderator Studies on Simple Geometries</i>
16:40	17:00	R. Granada, <i>Analysis of the premoderator temperature effect on the Moderator Brightness of a simple TMR model system</i>
17:00	17:20	C. Franklyn, <i>Development of compound neutron moderator structures for small accelerator based neutron source</i>
17:20	17:40	A. Alejo, <i>High power laser driven neutron source and application</i>
17:40		bus transport LNL-Padova
19:30		Social Dinner
Friday		15 May 2015
8:30	9:00	bus transport Padova-LNL
		Session <b>HIGH POWER TARGET</b> Chair.....
9:00	9:20	A. Andrighetto, <i>The SPES High Power ISOL production target</i>
9:20	9:40	L. Silvestrin, <i>ANEM: a rotating composite neutron production target for Single Event Effects Studies at the 70 MeV Cyclotron of LNL-INFN</i>
9:40	10:00	P. Mastinu, <i>The high power target for LENOS Project at Laboratori Nazionali di Legnaro of INFN-LNL</i>
10:00	10:20	I. Silverman, <i>Target choice for SARAF thermal neutron source</i>
10:20	10:40	K. Zhu, <i>Design of deuteron gas target with plasma window</i>
10:40	11:10	Coffee break
		Session <b>ACCELERATORS AND BEAM OPTICS</b> Chair.....
11:10	11:30	A. Pisent, <i>MUNES project: an intense Multidisciplinary Neutron Source for BNCT and other applications based on a high intensity RFQ accelerator</i>

11:30	11:50	O. Hinrichs, <i>Simulations of the high energy beam transport section (HEBT) at FRANZ</i>
11:50	12:10	F. Mezei, <i>Beam extraction and delivery at compact neutron sources</i>
12:10	12:30	N. Chauvin, <i>High intensity beams activities at CEA/Saclay</i>
12:30	12:50	X. Wang, <i>Commissioning of the 3-MeV proton and neutron beam lines at CPHS: A status report on accelerator and neutron activities at Tsinghua University</i>
		Session <b>COMPUTER SIMULATIONS</b> Chair.....
12:50	13:10	J. Lerendegui, <i>Geant4 Simulation of the n_TOF Spallation Target</i>
13:10	14:10	Lunch
		Session <b>CLOSURE</b> Chair C.-K. Loong
14:10	14:30	J. Carpenter, <i>Historical overview</i>
14:30	14:50	C.-K. Loong, <i>The Union for Compact Accelerator-driven Neutron Sources: Past, Present, and Prospects</i>
14:50	16:20	DISCUSSION: Future of CANS
16:20		bus transport LNL-Padova

### \*POSTER SESSION

ALBANI, Giorgia	<i>A 3D-cathode GEM-based thermal neutrons detector for spallation neutron sources</i>
DABRUCK, Jan Philipp	<i>HBS - A High Brilliant Neutron Source</i>
MIRFAYZI, Seyed Reza	<i>Imaging of static objects using laser-driven neutron source</i>
ALEJO, Aaron	<i>Fast-Neutron Generation by Laser-Driven Deuterium Ions from Ultrathin Targets</i>
BAXTER, David	<i>Radiation Effects Research at LENS</i>
SATOH, Setsuo	<i>Development of a New Exclusive Function with a Center-of- Gravity Calculation for the 2012 Model 6Li Time</i>
TSUCHIDA, Kazuki	<i>Construction of an accelerator-driven compact neutron source for BNCT in Nagoya Univeristy</i>
WANG, Sheng	<i>Shielding design of RIKEN Accelerator-driven Neutron Source (RANS) and brief introduction of XJTU-CANS plan</i>
KAMIYAMA, Takashi	<i>Convertible Source System of Thermal neutron and X-ray at Hokkaido University Electron Linac Facility</i>
SANO Tadafumi	<i>Improvement of Neutron Source for the Development of Non-destructive Methods Adapted for Integrity Test of Next Generation Nuclear Fuels at KURRI-LINAC</i>
JOASSIN, Denis	<i>Upgrade of the IBA dynamitron as a high-intensity proton accelerator</i>
SORDO, Fernando	<i>The ESS Helium Cooled Target</i>