

ICANS-XVIII PROGRAMME

(Apr. 25-Apr.29, Dongguan, Guangdong, China)

Wednesday, 2007-4-25 (DAY 0)

08:00 – 20:00

Registration

19:00 – 20:00

Reception, Dongguan Exhibition International Hotel

Thursday, 2007-4-26 (DAY 1)

08:30 – 09:00 Welcome

Academic Exchange Center, DIT

Chairman: Jie Wei/CSNS

Opening remarks (5 min.), Jie Wei, CSNS

Welcome remarks (5 min.), Hesheng Chen, Director General of IHEP

Welcome remarks (5 min.), Zhigeng Liu, Mayor of Dongguan

Welcome remarks(5 min.), Xiaoxi Yang, President of DIT

Group Photo (10 min.)

09:00 – 10:40 Plenary Session A

Academic Exchange Center, DIT

Chairman: Robert McGreevy/RAL

1. ID 219 Sciences, users, and future development at ISIS, Andrew Taylor/RAL (20+5 min.)
2. ID 217 SNS commissioning and early operations, Stuart Henderson/ORNL, (20+5 min.)
3. ID 51 J-PARC project status, Yujiro Ikeda/J-PARC, (20+5 min.)
4. ID29 Status and development of the Swiss Spallation Source SINQ, Werner Wagner/PSI, (20+5 min.)

10:40 – 10:50 Coffee break

10:50 – 12:30 Plenary Session B

Academic Exchange Center, DIT

Chairman: Suzuki Ikeda/KEK

1. ID 31 MEGAPIE - analysis of the in-beam operation of the first Megawatt liquid metal target, Friedrich Groeschel/PSI (20+5 min.)
2. Aspects of cold neutron sources, William M. Snow/IUCF, (20+5 min.)
3. Trends in neutron detection and detector technology, Ron Cooper/ORNL, (20+5 min.)

4. Trends in neutron optics and technology, Hirohiko M. Shimizu/KEK, (20+5 min.)

12:40 – 13:30 Lunch break

13:30 – 15:45, Parallel sessions C1-Part1, C2, C3

Session C1-Part 1: Accelerator system development (front end & linac)

Room 316 of EM Building

Chairman: Dan Faircloth/RAL and Kazuo. Hasegawa/JAEA,

Secretary: H.F. Ouyang

- 1.ID 56 The RAL Front End Test Stand Alan Letchford/RAL (20+5 min.)
- 2.ID116 The Development of the ISIS H-Surface Plasma Ion Source at RAL, Dan Faircloth RAL, (15+5 min.)
- 3.ID 61 Beam Commissioning of a High Current RFQ at IHEP, Huafu Ouyang/IHEP, (15+5 min.)
- 4.ID 45 DTL Accelerator for CSNS Shinian Fu/IHEP, (15+5 min.)
- 5.ID 201 Status of the J-PARC Linac Kazuo. Hasegawa/JAEA, (15+5 min.)
30 minutes Reserved for chair

Session C2: Neutronics

Room 403 of EM Building

Chairman: Steve Bennington/ISIS and Yujiro Ikeda/JAEA,

Secretary: W. Yin

1. ID117 Neutron scattering kernel for solid methane in phase II, G.R. Granada/Centro Atomico Bariloche and Instituto Balseiro, Argentina (15+5 min.)
2. ID111 Redesign of the ISIS first target station for improved neutronics, S. Ansell /ISIS (15+5 min.)
3. ID96 Measurements of spatial distribution and pulse shapes of neutrons from a cylindrical coupled para-hydrogen moderator, Tetsuya Kai/JAEA (15+5 min.)
4. ID70 Neutronics study of the coupled para-hydrogen moderator for CSNS, Wen Yin,/ CSNS (15+5 min.)
5. ID60 The nuclear heat calculations for the JSNS”, Masahide Harada/ J-PARC, (15+5 min.)
6. ID44 Scoping study for an electric dipole moment beam line at the Material Test Station, Guenter Muhrer / LANL (15+5 min.)
7. ID103 The production of Na-22 in the T6061 composition of moderator cans of the Lujan Target, C. Kelsey/LANL (15+5 min.)

Session C3, Diffractometers

Room 405 of EM Building

Chairman: Xunli Wang/ORNL and Takashi Kamiyama/KEK,

Secretary: Fangwei Wang

1. ID156 POWGEN3: A High Resolution Third Generation Neutron Powder Diffractometer under Construction, Jason P Hodges /SNS , (25+5 min.)
2. ID160 High Intensity Total Diffractometer at J-PARC, T. Otomo /J-PARC, (25+5).

3. ID72 Monte Carlo simulation of High Intensity Diffractometer for the CSNS,
Fangwei Wang /CSNS, (15+5 min.)
- 4 ID7 Long-pulse neutron source, RTOF diffractometers, Anatoly M. Balagurov/JINR
(15+5min.)
5. ID 84 Ibaraki materials design diffractometer, -versatile neutron diffractometer at J-PARC,
T. Ishigaki / J-PARC, (15+5min.)
6. ID166 VULCAN - The Engineering Diffractometer at the SNS, X.-L. Wang /SNS, (15+5min.)

15:45 – 16:00 Coffee break

16:00 – 18:15, Parallel sessions D1, D2, D3

Session D1, Accelerator system development (ring)

Room 316 of EM Building

Chairman: Stuart Henderson/ORNL

Secretary: Sheng Wang

1. ID162, Design of the Rapid Cycling Synchrotron for the China Spallation Neutron Source,
Sheng Wang/IHEP, (20+5 min.)
2. Status and Performance of the ISIS Synchrotron, Dean Adams/RAL, (20+5 min.)
3. ID226, Beamloss Mechanisms and Mitigation at the Los Alamos Proton Storage Ring,
Rod McCrady/ LANL, (20+5 min.)
- 4.ID210, Status of the JPARC Rapid Cycling Synchrotron, Michikazu Kinsho/JPARC,
(20+5 min.)
5. ID52, Design of the CSNS RCS Vacuum System, H. Dong/ IHEP, (20+5 min.)

Session D2, Target & target materials

Room 403 of EM Building

Chairman: Kenji Kikuchi/J-PARC and Werner Wagner/PSI,

Secretary: Xuejun Jia

1. ID27, Present status of the SINQ target irradiation program (STIP), Y. Dai/PSI, (20+5 min.)
2. ID75, Material research and development for the CSNS project, X.J.Jia/CSNS (15+5 min.)
3. ID114, Lead Detection in the MEGAPIE Target, Knud Thomsen/PSI, (15+5 min.)
4. ID26, Proton radiography experiment to visualize gas bubbles in mercury,
Bernie Riemer/SNS, (15+5 min.)
5. LBE target potential to MW ADS source, K. Kikuchi/J-PARC, (15+5 min.)
6. ID49, Development on controlled micro-gas bubble formation in mercury target,
H.Kogawa/J-PARC (10+5 min.)
7. ID50, R&D on pressure-wave mitigation technology in mercury target,
M. Futakawa/J-PARC, (10+5 min.)

Session D3, SANS and Reflectometers

Room 405 of EM Building

Chairman: Jinkui Zhao/ORNL and M. Furusaka/Hokkaido Univ.

Secretary: Lunhua He

1. ID37, Initial Commissioning Results for the SNS Magnetism Reflectometer, F. Klose /SNS , (17+3 min.)
2. ID191, Design concepts and latest progress in construction of a horizontal reflectometer at J-PARC, N. Torikai /J-PARC, (17+3 min.)
3. ID121, Design and performance analysis of the high-intensity SANS instrument (HI-SANS) at the J-PARC, J. Suzuki /J-PARC, (17+3 min.)
4. ID212, Larmor angle coding in SANS and reflectometry at a pulsed neutron source, A.A. van Well / Delft, (17+3 min.)
5. ID192, Options for new large-scale-structures instruments at HFIR: Tossing our hat into the RING, K.C. Littrell / ORNL, (15+3 min.)
6. ID 68, First results from a mini-focusing Small-Angle Neutron Scattering Instrument (mfSANS) with an ellips, M. Furusaka /J-PARC, (15+3 min.)
7. ID120, Status of the neutron spin echo instrument for the SNS, M.Ohl /SNS , (15+3 min.)

19:00 – 21:00 Banquet, 3rd Floor, Hongtu Hall,

Dongguan Exhibition International Hotel

Friday, 2007-4-27 (DAY 2)

08:30 – 10:20 Plenary Session E

Academic Exchange Center, DIT

Chairman: Guenter Bauer/ SENER

1. The Los Alamos neutron science center: status and future plans, Kurt Schoenberg/LANL, (15+3 min)
2. IPNS Status Report, James W. Richardson /IPNS, (15+3 min)
3. Status report of IBR-2 pulsed reactor, Alexander Belushkin/JINR, (15+3 min)
4. Conceptual studies for a regional spallation neutron source in the Basque country, Günter BAUER/SENER, (15+3 min)
5. Status and development of SPIRAL 2 at GANIL, Jean-Michel Lagniel/CEA, (15+3 min)
6. Status and development of IFMIF (EVEDA), Pascal Garin/CEA, (15+3 min)

10:20 – 10:30 Coffee break

10:30 – 12:30, Parallel sessions F1, F2, F3

Session F1, Accelerator and target/experiment interface

Room 316 of EM Building

Chairman: Graeme Murdoch /ORNL

Secretary: Jingyu Tang

1. ID211, Engineering the SNS Accelerator/Target Interface, Mike Holding/ORNL, (25+5min.)
2. ID87, Preliminary Study on the Interface between the CSNS RTBT and the Spallation Target, Jingyu Tang/IHEP, (25+5 min.)
3. ID195, Experience with VIMOS during the irradiation phase of MEGAPIE, Knud Thomsen/PSI, (25+5 min.)
4. ID98, Saeed Assadi/ORNL (25+5 min.)

Session F2, Moderators and reflectors

Room 403 of EM Building

Chairman: John Haines/ORNL

Secretary: Tianjiao Liang

- 1.ID181, Slow Neutron Sources: Cold, Very Cold, and Ultracold, W. M. Snow/Indiana University, (15+3 min.)
- 2.ID171, SNS Hydrogen Moderator System - A Year in Review, J. A. Crabtree/SNS, (15+3 min.)
- 3.ID110, Second coupled moderator for the ISIS second target station, S. Ansell/ISIS,(15+3 min.)
- 4.ID76, Layout Optimisation of CSNS Target-Moderator-Reflector, Assembly, Tianjiao Liang/CSNS, (15+3 min.)
- 5.ID34, Implementation of Be reflector-filter in the design of the Manuel Jr. Lujan Center Target Moderator, Author: M. Mocko/LANL, (15+3 min.)
- 6.ID147, Complex of moderators for the IBR-2M reactor, V. Ananiev/JINR, (15+3 min.)
7. ID169, First Moderator Performance Calculations for a SNS Second Target Station, F. X. Gallmeier/SNS , (15+3 min.)

Session F3, Spectrometers

Room 405 of EM Building

Chairman: Toby Perring/RAL and, Masatoshi Arai /J-PARC

Secretary: Fangwei Wang

1. ID128, The Inelastic Instrument suite at the SNS, Garrett Granroth / SNS , (25+3 min.)
2. ID112, A new multi-chopper cold neutron spectrometer at ISIS, R Bewley /ISIS , (20+3 min.)
3. ID**, The chopper spectrometers at J-PARC, K. Nakajima/JAEA, (25+3 min.)
4. ID101, Exess : an extreme environment beamline at ISIS, P. Manuel/ISIS, (15+3 min.)
5. ID36, ZEEMANS, a 30+ Tesla Neutron Scattering Beamline for the SNS, F. Klose/SNS (15+3 min.)
6. ID94, Versatile Inelastic Neutron Spectrometer (VINS) project for J-PARC, T. J. Sato/J-PARC, (12+3 min.)

12:30 – 13:30 Lunch break

13:30 – 15:45 Parallel sessions G1, G2, G3, J1-Part1

Session G1, Accelerator commissioning and operations

Room 314 of EM Building

Chairman: David Findlay/RAL and John Galambos/ORNL

Secretary: Shinian Fu

1. ID28, Operation of the 1 MW Proton Beam Facility at PSI, Mike Seidel/PSI, (22+5 min.)
2. ID47, Running a mature pulsed spallation neutron source – ISIS, D J S Findlay/ISIS, (22+5 min.)
3. ID81, Commissioning experience and plans for J-PARC linac, Masanori Ikegami/J-PARC (22+5 min.)
4. ID148, Transitioning from Commissioning to Operation at the Spallation Neutron Source, J. Galambos/SNS, (22+5 min.)
5. ID199, Accelerator (1MW) and Proton Storage Ring (100kW) Commissioning and Operation at the Los Alamos Neutron Source, Kevin W/LANL, (22+5 min.)

Session G2, Shielding**Room 403 of EM Building****Chairman: Franz X. Gallmeier/ORNL and Fujio Maekawa/JAEA****Secretary: Qiwei Yan**

- 1.ID16, Three-dimensional coupled Monte Carlo-deterministic program for shielding analysis of large and comp, Yixue Chen/ North China Electric Power University, Beijing , (15+5 min.)
2. ID62, Integral Data Test for light nuclides of HENDL2.0/MG with Neutronics Shielding Experiments, J. Jiang / Institute of Plasma Physics, CAS, (15+5 min.)
3. ID73, Primary shielding design for 100 kW CSNS, Wen Yin / CSNS, (15+5 min.)
4. ID170, Beamline Shielding and Activation Aspects of the Neutron Spin Echo Instrument at SNS, F. X. Gallmeier /SNS , (15+5 min.)
5. ID173, Temporary shielding experience at the SNS, P. D. Ferguson /SNS, (15+5 min.)
6. ID92, Measurements of the ultra-cold neutron production and cold neutron transmission for deuterium, oxygen, M. Kasprzak / Paul Scherrer Institute, (12+3 min.)
7. ID97, A Writing Plan of a Teaching Material “An Introduction to Neutron Scattering Techniques and Applica”, Chun-lin Zhang / Department of Physics, Jinan University (12+3 min.)
8. ID119, Neutron Cross Section Libraries for Aromatic Molecular Systems, F. Cantargi / Centro Atomico Bariloche, CNEA, (12+3 min.)

Chairman: Session G3, Detector and data acquisition**Room 405 of EM Building****Chairman: Richard Riedel/ORNL, Dongfeng Chen/CIAE, and Yuanbo Chen/IHEP**

- 1.ID46, Development of New Neutron Gaseous Detector with GEM, S.Uno/J-PARC, (17+3 min.)
- 2.ID59, A position sensitive transmission detector for epithermal neutron imaging, E.M. Schooneveld/ISIS, (17+3 min.)
- 3.ID139, Measuring the full four-dimensional S(Q,w) in single crystals on direct geometry spectrometers, T.G.Perring/ISIS, (16+3 min.)
- 4.ID153, Detector Electronics For Large Area Detector Systems, Richard Riedel/SNS, (16+3 min.)
- 5.ID158, Neutron data management: from cradle to grave, Robert McGreevy/ISIS, (16+3 min.)
- 6.ID164, New ³He Based Neutron Detectors for High Rate Applications, Bo Yu / BNL, (16+3 min.)

7.ID189, Recent advances in gas detector development for neutron instrumentation, J.C. Buffet/
ILL, (16+3 min.)

Session J1-Part 1, Medical applications

Room 316 of EM Building

Chairman: Lee Teng

Secretary: Qing Qin

- 1.ID206, Neutron therapy for radioresistant cancers , A. Lennox /FNAL, (30+10 min.)
2. ID91, Neutron sources for neutron therapy at the INR facilities, V. Skorkin/INR,
(30+10 min.)
3. ID209, The conceptual design of a Rapid Cycling Synchrotron for proton therapy,
S. Fang /IHEP, (20+10 min.)
- 4.ID205, The BNL Rapid Cycling Medical Synchrotron, S. Peggs/BNL, (20+10 min.)

15:45 – 16:00 Coffee break

16:00 – 18:15 Parallel sessions H1, H2, H3, J1-Part2

Session H1, Accelerator projects in China

Room 314 of EM Building

Chairman: Zhentang Zhao/SSRF and Jiawen Xia/IMP

- 1.ID203, HLS Operation Status and Machine Studies,Li Weimin/HLS,(25+5 min.)
- 2.ID196, Construction and initial commissioning of BEPCII, J.Q.Wang/IHEP, (25+5 min.)
- 3.ID197, Initial Commissioning of CSR J.W. Xia/IMP, (25+5 min.)
- 4.ID198, Construction Progress of the Shanghai Synchrotron Radiation Facility, Z.T. Zhao/SSRF,
(25+5 min.)

Session H2, Target station design & engineering

Room 403 of EM Building

Chairman: D. Lousteau/ORNL

1. ID69, Fabrication status of moderator-reflector in JSNS, M. Teshigawara, (15+5 min.)
2. ID122, The construction of JSNS shutter system, K. Oikawa, (15+5 min.)
3. ID39, Development of Neutron Shielding Concrete containing colemanite and peridotite,
Koichi Okuno, (15+5 min.)
4. ID178, Experimental Study of Swelling of Irradiated Solid Methane during Annealing,
E. Shabalin, (12+3 min.)
5. ID71, Estimation of pressure change based on hybrid control system in JSNS hydrogen loop,
S. Hasegawa, (12+3 min.)
- 6.ID159, CFD Simulation of Warm Jet Thermograph Study on the MEGAPIE Target, W.H.
Leung/PSI , (12+3 min.)
- 7.ID99, Experimental Program at a Neutron Beam Line NOBORU in JSNS, Fujio MAEKAWA /
J-PARC , (12+3 min.)
8. ID177, Neutronics Commissioning Measurements for the Spallation Neutron Source,

E. B. Iverson /ORNL, (12+3 min.)

Session H3, Neutron optics and components

Room 405 of EM Building

Chairman: Hirohiko M. Shimizu/KEK and Thomas Krist/HMI

Secretary: T. Zhu

1. ID129, Neutron optical developments at HMI Berlin, Thomas Krist, (17+3min)
2. ID188, Neutron Optical Transport Systems at the US Spallation Neutron Source, J.P. Hodges, (17+3min)
3. ID77, The current status of neutron guide in CSNS, Tao Zhu, (17+3min)
4. ID, Rapid Cycling Variable Permanent Magnet Sextupole Lens for Pulsed Cold Neutrons
Y. Iwashita/ Kyoto Univ, (17+3min)
5. ID5, Supermirror coatings for the new spallation source J-PARC, R. Maruyama /J-PARC, (13+2min)
6. ID15, Development of multilayers for neutron optics in IPOE, Zhong Zhang / Tongji University, Shanghai, China, (13+2min)
7. ID174, Recent polarized neutron instrumentation development at the Spallation Neutron Source, W. T. Lee /ORNL, (17+3 min.)

Session J1-Part2, Medical applications

Room 316 of EM Building

Chairman: Shouxian Fang/IHEP

Secretary: Qing Qin

1. ID227, Carbon ion radiotherapy at the NIRS, HIMAC, T. Kamada/NIRS, (30+10 min.)
2. ID208, Progress in heavy-ion cancer therapy at IMP-CAS, Q. Li/IMP-CAS, (30+10 min.)
3. ID, Efficiency in particle therapy facilities - using new workflow opportunities M. Herforth/Siemens, (30+10 min.)

Saturday, 2007-4-28 (DAY 3)

08:30 – 10:10 Plenary Session I

Academic Exchange Center, DIT

Chairman: Thom Mason/ORNL

1. Concensus on 5 MW long pulse upgradeable ESS -- enabling Europe to define the next frontier in neutron science, Peter Tindemans, (20+5 min.)
2. Status and development of the PEFP project, Byung-Ho Choi/KAERI, (20+5 min.)
3. Design and R&D status of the CSNS project, Jie Wei/CSNS, (20+5 min.)
4. Directions of neutron source development, Thom Mason/ORNL, (20+5 min.)

10:10 – 10:25 Coffee break

10:25 – 12:30, Parallel sessions J1-Part3, J2, J3, C1-Part 2

Session J1-Part3, Medical applications

Room 316 of EM Building

Chairman: Steve Peggs/BNL

Secretary: Qing Qin

1. ID, Proton clinical experience, J. Slater/LLUMC, (30+10 min.)
2. ID108, Treatment of more than 5000 patients with particle therapy, J. Duppich/PSI, (30+10 min.)
3. ID, Innovation in particle therapy, (30+10 min.), Y. Jongen/IBA, (30+10 min.)

Session J2, Facility status and development

Room 403 of EM Building

Chairman: J. Carpenter /ANL

1. ID35, The Lujan Neutron Scattering Center at Los Alamos, James J. Rhyne /LANL, (20+5)
2. ID54, The UCN source at PSI, Michael Wohlmuther/PSI (17+3)
3. ID130, OPAL - the new Australian Research Reactor, R. A. Robinson/ANSTO, (17+3)
4. ID98, The Low Energy Neutron Source-Facility Status Report, David V. Baxter/ Indiana University, (17+3)
5. ID123, A neutron complex of INR RAS -- a facility status report, E.A. Koptelov/INR, (17+3)
6. ID107, Results from the Spallation Driven, Solid Deuterium Ultracold Neutron Source at Los Alamos National, A. R. Young/LANL, (17+3)

Session J3: Sample Environment

Room 405 of EM Building

Chairman: Zoe Bowden /RAL and James Rhyne/LANL

1. ID155, Automated Sample Exchange and Tracking System for Neutron Research at Cryogenic Temperatures, Lou J. Santodonato /Oak Ridge National Laboratory, (25+5 min.)
2. ID14, Neutron instrumentation and pressure techniques for studies in extreme conditions, Igor N. Goncharenko/ CEA-CNRS, (25+5 min.)
3. ID118, High Pressure Cells up to 40kbar For Neutron Scattering At Low Temperatures (100mk) And High Magnet, Ravil Sadykov/Inst. For High Pressure Phys. RAS, Russia (25+5 min.)
4. ID25, Cryo-free low temperature sample environment based on pulse tube refrigeration, Oleg Kirichek/RAL, (25+5 min.)

Session C1-Part2, Accelerator system development (front end & linac)

Room 314 of EM Building

Chairman: Dan Faircloth/RAL Kazuo Hasegawa/J-PARC

Secretary: Huafu Ouyang

1. ID124, Proton sc linac development P.N. Ostroumov/ANL, (20+5 min.)

2. ID152, The SPIRAL 2 Superconducting CW Linac Driver, T. Junquera/IPN (15+5 min.)
- 3.ID140, Intense pulsed Neutron Source FRANZ in the 1-500 keV Range,
U. Ratzinger/J.W. Goethe Univ., (15+5, min.)
- 4.ID150, Status of the SPL at CERN, R. Garoby/CERN, (15+5 min.)
- 5.ID 165 The Design of a 6 MeV Deuteron RFQ Accelerator as a Low Energy Neutron Source
J. W. Kwan/LBNL, (15+5 min.)

***20 minutes reserved for Chair.**

12:30 – 21:30 Tour

12:30 – 13:10 Go back to Hotel by bus.

13:10-13:50 Have lunch at Dongguan Exhibition International Hotel

14:00-21:30 Tour to Shenzhen

Sunday, 2007-4-29 (DAY 4)

08:30 – 10:45, Parallel sessions K1, K2, K3

Session K1, ADS, RIA, Drivers

Room 316 of EM Building

Chairman: Jean-Michel Lagniel /CEA

Secretary: Shinian Fu

1. ID134, Accelerator design for ADS, J-L. Biarrotte/IPN, (20+5 min.)
2. ID57, A Probable Roadmap for Transmutation Research by CSNS and Its Techniques,
Zhang Jie/Jinan University, (20+5 min.)
3. ID65, A Plan for Novel Material Science Facility integrating an All-ion Accelerator and a Small
Neutron Source, Masayoshi Kawai/KEK, (20+5 min.)
4. ID179, Proposal of the ads research stand based on linac of INR RAS, S.F.Sidorkin/INR,
(20+5 min.)
5. ID, Options for a 50 Hz, 10 MW, Short Pulse Spallation Neutron Source, G H Rees/RAL
(30+5 min.)

Session K2, Target operations & upgrade

Room 403 of EM Building

Chairman:Hajo Heyck/PSI

1. ID6, The Materials Test Station: A Fast Spectrum Irradiation Facility, Eric J. Pitcher,
(20+5 min.)
2. ID104, Beyond Spallation and Fission, Steve Bennington/RAL, (20+5 min.)
3. ID64, Present status of material and life science facility (mlf) and spallation neutron source
related components, M. Kaminaga, (20+5 min.)
4. ID141, Assembly, Testing, and Initial Operation of the SNS Target System, D. Lousteau,
(15+5 min.)
5. ID63, Present status of JSNS mercury target, K. Haga, (15+5 min.)
6. ID180, Target Modules of the Pulsed Neutron Source of INR RAS, S.F.Sidorkin, (15+5min.)

Session K3, Fundamental physics and neutron optics

Room 405 of EM Building

Chairman: I. Anderson/ORNL

1. ID182, Nuclear/Particle/Astrophysics using Low Energy Neutrons: A Summary of Activities and Future Opportunities in the US, W. M. Snow / Indiana University Cyclotron Facility (25+5 min.)
2. ID172, Using Stern-Gerlach effect to enhance FeSi polarizing supermirror performance, G.P. Felcher,/ Oak Ridge National Laboratory, (15+5 min.)
3. ID175, Spin Contrast Imaging, W. T. Lee / Oak Ridge National Laboratory, (15+5 min.)
4. ID8, The joint phase-space transformer up-scattering project, S. Mayer / Atominstitut der Österreichischen Universitäten, Austria, (15+5 min.)
5. ID176, A computation study of the SESAME coil field, R. Pynn/ORNL, (15 +5 min.)
6. ID17, Colder, Slower, Longer: Prospects for a Very Cold Neutron Source, Brad Micklich/ANL, (15+5 min.)

10:45 – 11:00 Coffee break

11:00 – 12:30, Discussion Session L

Working group discussions (90 min.)

1. Accelerator working group, room to be determined.

Chairman: S. Henderson/BNL

2. Target station working group, room to be determined.

Chairman: W. Wagner/PSI

3. Instrument working group, room to be determined.

Chairman: M. Arai/J-PARC

12:30 – 13:30 Lunch Break

13:30 – 15:10 Session M

Room: to be determined

Round-table Discussion on Collaboration (100 min.)

- (1) Collaboration among facilities
- (2) Collaboration on instrument software
- (3) Industrial applications of neutrons

15:10 – 15:20 Coffee break

15:20 – 17:00 Plenary Session N

Academic Exchange Center, DIT

Chairman: Jie Wei/CSNS

- 1.Summary of accelerator sessions, Stuart Henderson/ORNL, (25+5 min.)**
- 2.Summary of target station sessions, Werner Wagner/PSI, (25+5 min.)**
- 3.Summary of instrument sessions, Masatoshi Arai/J-PARC, (25+5 min.)**
- 4.Closing remarks, Jie Wei/CSNS (10 min.)**
- 5.Adjourn**

Poster Sessions

Post session will take place from April 26 to April 30. There will be totally two poster sessions, and each poster will remain two days. The place for posters is at outside of the Academic Exchange Center, DIT.

Poster session A, April 26, 9:00 – April 27, 18:00

1. ID143, The European Spallation Source in Lund, C J Carlile/ Lund University, Sweden
2. ID135, A simulation workshop for an improved instrument suite on the ESS Long Pulse Target, E. Farhi/NLL
3. ID30, The story of MEGAPIE operation - the first liquid metal target for the MW beam power range, Hajo Heyck/PSI
4. ID149, The linac rf-system for china spallation neutron source project, Jian Li/IHEP
5. ID106, Calculations of activity and afterheat in the target station of CSNS, Quanzhi Yu, Qiwei Yan, Tianjiao Liang, Wen Yin/IPHY
6. ID55, Validation of MCNPX and McStas with measurements at the ICON beamline at SINQ, U. Filges, L. Giller, G. Kuehne, M. Wohlmuther,
7. ID119, Neutron cross-section libraries for aromatic molecules, Cantargi,
8. ID168, The CINDER'90 Code Embedded in Easy to Use Scripting Tools for Multi-Cell Spallation Source Activation, Gallimeier
9. ID4, A low cost educational neutron scattering and diffraction beamline at Tsing Hua Open-Pool Reactor, Chih-Hao Lee, Hui-Chia Su, Zhi-Wei Hu, Jinn-Jer Peir, and Li-Jang Chang
10. ID89, Current status of IBARAKI biological diffractometer in J-PARC -Design of the neutron optics, T. Ohhara, K. Kurihara, K. Kusaka, T. Hosoya, I. Tanaka, N. Niimura, T. Ozeki, K. Aizawa, Y. Morii, M. Arai, M. Hayashi, K. Ebata and Y. Takano
11. ID102, Current Status of IBARAKI Biological Diffractometer in J-PARC - Detector Configuration and Data Redu, , K. Kusaka, T. Ohhara, I. Tanaka, N. Niimura, K. Kurihara, T. Hosoya, T. Ozeki, K. Aizawa, Y. Morii, M. Arai, M. Hayashi, K. Ebata, Y. Takano,/JAEA,
12. ID1, Simulation of Beam Loss in CSNS/RCS, Tao Wei/IHEP
13. ID38, Pulsed Power Supply Design for the CSNS/RCS Injection and Extraction System, Y.L. Chi/IHEP
14. ID40, RF System for the CSNS Rapid Cycling Synchrotron, H. Sun, IHEP, China
15. ID42, The R&D of the prototype resonant network for the CSNS/RCS J. Zhang/IHEP
16. ID, Solid target performance against decay heat, K. Kikuchi/J-PARC
17. ID194, Recent Progress on Materials Development for Japanese ADS Target Beam Window, Hamaguchi, Dai/J-PARC
18. ID67, The Thermal Process Simulation of Tungsten Target for the Pulsed Spallation Neutron Source, Hua Hou, Wen Yin and Qiwei Yan
19. ID80, A finite element calculation on the thermodynamic parameters in a heavy-water cooled tungsten-plate, Zhongyi Shen and Qiwei Yan
20. ID66, Progress of the Extended Q-Range SANS at the SNS,, J.K. Zhao, H. Bilheux
21. ID144, High-q performance of the J-PARC small-angle neutron scattering instrument

- (HI-SANS) for observati, Shin-ichi Takata, Jun-ichi Suzuki, Takenao Shinohara, Takayuki Oku, Kentarao Suzuya, Kazuya Aizawa, Toshiya Otomo, Masatoshi Arai
22. ID161, Small and wide-angle neutron diffractometer (SWAN) at KENS,, T. Otomo, M. Furusaka, S. Satoh, T. Adachi, K. Mori, H. Iwase, S.Takata, S.Shimizu
 23. ID74, An IAEA Coordinated Research Project on “Improved production and utilization of short pulsed, cold neutron source” , F. Mulhauser, G. Mank, and M. Furusaka
 24. ID78, The calculation and design of reflector for CSNS target station,, Jianhong Du, Zhongyi Shen, Qiwei Yan, Wen Yin, Deqi Zhao
 25. ID18 Metal hydrides as moderators for pulsed spallation neutron sources, Brad Micklich/ANL
 26. ID213 The experimental and calculated density of vibrational of states and UCN loss coefficients of perflu, Yu.N. Pokotilovski, I. Natkaniec, K. Holderna- Natkaniec/JINR
 27. ID204 Recent development of gaseous position-sensitive thermal neutron detectors for the IBR-2 spectromete, A.V. Belushkin, A.A. Bogdzel, A.N. Chernikov, A.V. Churakov, et.al /JINR
 28. ID218 Rapid Cycling Variable Permanent Magnet Sextupole Lens for Pulsed Cold Neutrons Y. Iwashita, et al./ Kyoro University
 29. ID223: Application of Neutron Sources in Study on Reduced Activation Ferretic/Martensitic steel, Qunying Huang et al/IPP
 30. ID79, Broad Q-Rang Small Angle Diffractometer for CSNS, Lunhua He /CSNS
 31. ID231, SANS at the ISIS second target station, R.K.Heenan/ISIS

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1. ID33, Setup for study neutron-neutron final state interaction at neutron channel of Moscow Meson Factory, M.Grachev, E.Konobeevski, E.Koptelov, L.Kravchuk, V.Fedchenko, M.Mordovskoy, S.Potashev, Yu.Ryabov, V.Sergeev, V.Skorkin, N.Sobolevskiy, S.Zuyev
2. ID43, Larmor labeling by time-gradient magnetic fields, A.Ioffe, V.Bodnarchuk
3. ID86, Study of Neutron Tomography using Neutron Resonance Absorption, T. Kamiyama, H. Sato, N. Miyamoto, H. Iwasa, Y. Kiyonagi and S. Ikeda
4. ID95, Current Status of Cold Neutron Disk-Chopper Spectrometer Project for MLF, J-PARC, K. Nakajima, M. Nakamura, R. Kajimoto, Y. Inamura, T. Osakabe, S. Wakimoto, K. Shibata, K. Suzuya, K. Aizawa, K. Kakurai, S. Itoh, M. Matsuda, M. Metoki, T. J. Sato, K. Yoshida, K. Niita and M. Arai
5. ID105, Multiple incident energies measuremet on chopper spectrometers at J-PARC, M. Nakamura, K. Nakajima, R. Kajimoto, T. Yokoo, Th. Krist, M. Arai
6. ID109, Development of the Chopper Spectrometer 4SEASONS at J-PARC, R. Kajimoto, T. Yokoo, K. Nakajima, M. Nakamura, Y. Inamura, R. Maruyama, K. Soyama, K. Suzuya, T. Ino, K. Ohoyama, K. Aizawa, M. Arai, K. Niita, Y. Imai, K. Kodama, H. Asaoka, S. Shamoto, H. Hiraka,

7. ID132, Prospects for using neutrons to probe nuclear magnetic resonance signals, Garrett E. Granroth, Spallation Neutron Source, Oak Ridge National Laboratory, Oak Ridge, TN, USA
8. ID151, Updated Instrumental Design of Indirect Geometry Crystal Analyzer Spectrometer; DIANA for J-PARC. Kaoru Shibata, Nobuaki Takahashi, Taku J. Sato, Yukinobu Kawakita, Itaru Tsukushi, Kenji Nakajima, Masatoshi Arai, Ferenc Mezei.
9. ID157, Current Status of software development on 4SEASONS and CNDCS for MLF, J-PARC, Y. Inamura, R. Kajimoto, K. Nakajima and M. Arai
10. ID125, Calculation for CSNS Shielding Design, Qingbin Wang, Tiehui Li, Qingbiao Wu, Qingjiang Zhang, Zongjian Ma, Jingmin Wu
11. ID82, Texture and strain measurements by analyzing Bragg edges of pulsed neutron transmission spectra, K. Iwase, T. Nagata, O. Takada, K. Sakuma, T. Kamiyama and Y. Kiyonagi
12. ID85, The network distributed data acquisition system at MLF/J-PARC, Takeshi Nakatani, Setsuo Satoh, Toshiya Otomo, Masatoshi Arai
13. ID167, Chopper Control System at SNS, Carol Tang, Richard Riedel
14. ID58, Optimization of polarizer bender for SESAME beamline at LENS, V. R. Shah, Roger Pynn, Mark Leuschner and David Baxter
15. ID83, An advanced neutron guide geometry for the near-backscattering spectrometer, DIANA at J-PARC, N. Takahashi, K. Shibata, T.J. Sato, K. Nakajima, R. Kajimoto, K. Oikawa, M. Arai, C. Schanzer
16. ID88, A new time-focusing crystal configuration for an inverted-geometry TOF spectrometer, N. Takahashi, K. Shibata, T.J. Sato, M. Arai, F. Mezei
17. ID93, Development of permanent magnet quadrupole lenses for neutron polarization and transport, S. Muto, T. Ino, Y. Iwashita, T. Oku, N. Kaneko, M. Kawai, Y. Kobayashi, H. Sagehashi, T. Shinohara, H. M. Shimizu, J. Suzuki, T. Tahara, K. Hirota, T. Morishima
18. ID115, Development of a magnetic lens for pulsed neutron focusing, T. Shinohara, J. Suzuki, T. Oku, H. Iwashita, T. Kamiyama, H. Iwasa, F. Hiraga, K. Sato, Y. Kiyonagi, H. M. Shimizu
19. ID90, Development of an automatic sample changer system for IBARAKI Materials Design Diffractometer, A. Hoshikawa, T. Ishigaki, M. Nagai, Y. Kobayashi, H. Sagehashi, T. Kamiyama, M. Yonemura, K. Aizawa, T. Sakuma, Y. Tomota, M. Arai, M. Hayashi, K. Ebata, Y. Takano, and T. Kasao
20. ID137, Advanced Magnets for Neutron Scattering at ISIS, Devashibhai Adroja, Sean Langridge, Richard Down, Oleg Kirichek, Zoe Bowden
21. ID138, High pressure cell for neutron scattering study of solid helium, Mark Adams, Mohammad Chowdhury, Robert Done, Richard Down, Andy Church, Oleg
22. ID145, A novel 5 Tesla cryogen-free high temperature BSCCO (2223) superconducting magnet for neutron scienc, S.Olsen¹, S.Kennedy¹, E.Gilbert¹, M.James¹, R.Robinson¹, J.Tallon², D.Pooke³, V.Chamritski³
23. ID163, WISH Sample Vacuum Tank Window Development, Chris Benson
ID190, Neutron Studies of High Boron Content, Resin Bonded, Neutron Shielding Materials for neutron scatter, Kentaro Suzuya, Katsuhiko Kusaka, Stefanus Harjo, Shuki Torii, Kazuya Aizawa, Setsuo Sato, Takashi Kamiyama, Koji Niita, Masatoshi Arai
24. ID154, 3D Modeling of Particle Losses in SNS Ring Injection Dump Beam Line, J. G.

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25. ID221 Systemic analysis of the 1/2/3D shielding calculation on EAST superconducting tokamak, Qunying Huang, Yican Wu/IPP
26. ID222 Development and application of integrated software system for neutronics shielding calculation and modeling, Yican Wu/IPP
27. ID220: Research and Development of Key Technology in Accurate/Advanced Radiation Therapy System (ARTS), Yican Wu et al./IPP
28. ID228 RF, thermal and structural analysis and design of the CSNS MEBT 324 MHz buncher cavity, LIU Hua-Chang, OUYANG Hua-Fu/IHEP
29. ID229 Thermal Analysis of CSNS RFQ, OUYANG Huafu/IHEP