

Workshop on Nuclear Resonant Scattering

-- Towards building a dedicated NRS beamline in China

Place: Institute of High Energy Physics,
Chinese Academy of Sciences,
Beijing, China

Date: January 19-21, 2017

A dedicated nuclear resonant scattering (NRS) beamline is being considered for the upcoming High Energy Photon Source (HEPS), which is expected to be built in Beijing, China in two years. We are going to hold a workshop on NRS (**1st nuclear resonant scattering workshop in China**) at the Institute of High Energy Physics, Beijing on January 20-22, 2017, and prepare a report that will become part of the “Scientific Case for HEPS”. In this workshop, the following topics will be covered: 1) Important scientific problems that can be addressed by NRS techniques in various fields like geophysics, biochemistry, and materials science. 2) Beamlines and instrumentation development for NRS: current status and future development at low emittance storage ring (ESRF-U, APS-U, SPring8-U, and PETRA-IV); 3) Advice to NRS beamline team at HEPS in terms of beam requirements and sample environments. 4) Recent research results of prominent Chinese groups on high pressure science, superconductors, magnetism, biochemistry and catalyst that is using or will use the nuclear resonant scattering techniques (forward scattering and inelastic scattering). The main purpose of the workshop is to write up a report to support the construction of the NRS beamline at HEPS.

Invited speakers (* unconfirmed speakers):

Name	Affiliation
Ralf Röhlsberger	Deutsches Elektronen-Synchrotron DESY
Yoshitaka Yoda	SPring-8
Hans-Christian Wille	PETRAIII
Rudolf Ruffer	ESRF
*Alexandr Chumakov	ESRF
Esen Ercan Alp	APS, Argonne National Laboratory
*M. Seto	Kyoto University
Ho-kwang Mao	Carnegie Institution of Washington
Jiyong Zhao	APS, Argonne National Laboratory
Robert W. Scheidt,	University of Notre Dame
Michael Hu	APS, Argonne National Laboratory
Jianbo Wang/Desheng Xue	Lanzhou University

Zhaohua Cheng	IOP-CAS
Yuan-Hua Lin	Tsinghua University
Hua Pang/Zhiwei Li	Lanzhou University
Jianfeng Li	UCAS
Junhu Wang	DICP-CAS
Changqing Jin	IOP-CAS

International Organizing Committee

Dr. Xu, Wei, Institute of High Energy Physics, Chinese Academy of Sciences
 Prof. Dr. Li, Jian-feng, University of Chinese Academy of Sciences
 Dr. Zhao Jiyong, Argonne National Laboratory
 Dr. Alp, Ercan. Argonne National Laboratory
 Dr. Hu, Michael, Argonne National Laboratory
 Prof. Dr. Wang, Junhu, Dalian Institute of Chemical Physics, Chinese Academy of Sciences

Scientific Steering Committee

Prof. Stephen Cramer, University of California, Davis | UC Davis
 Prof. Brent Fultz, California Institute of Technology
 Prof. John Tse, University of Saskatchewan
 Prof. Ho-Kwang (David) Mao, Carnegie Institution of Washington
 Dr. Thomas Scott Toellner, Argonne National Laboratory
 Prof. Jung-Fu "Afu" Lin, University of Texas at Austin
 Prof. Tao Zhang, Dalian Institute of Chemical Physics, Chinese Academy of Sciences
 Prof. Xiaowei Zhang, Institute of High Energy Physics, Chinese Academy of Sciences
 Prof. Yuhui Dong, Institute of High Energy Physics, Chinese Academy of Sciences
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Webpage of the workshop will be announced soon

本次研讨会得到中国科学院高能物理研究所高能同步辐射光源验证装置项目、中国高等科学技术中心、中国科学院真空物理重点实验室、中国科学院大学联合资助。