Georg Berg 11/10/2012

Biographical Sketch

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74) Experimental investigations of the ^{12}C+^{12}C fusion toward extremely low energies by direct and indirect methods, X. Fang, B. Bucher, S. Almaraz-Calderon, A. Alongi, A.D. Ayangeakaa, A. Best, G.P.A. Berg, C. Cahillane, E. Dahlstrom, R.J. deBoer, M. Freer, H. Fujita, Y. Fujita, J. Görres, K. Hatanaka, A. Howard, T. Itoh, T. Kadoya, T. Kawabata, J.J. Kolata, Q. Li, Y.J. Li, B. Liu, A. Long, Y.-W. Lui, S. Lyons, Y. Matsuda, K. Miki, N Paul, A. Roberts, M.K. Smith, R. Talwar, A. Tamii, W.P. Tan, X.D. Tang, M. Wiescher, N. Yokota, Proc. NN2012 11th International Conference of Nucleus-Nucleus Collisions, 27 May 2012, San Antonio, USA. (to be published)

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C. Seminars and Presentations (since 1986)

1) Experiments with the High-Resolution Spectrometer BIG KARL, Seminar, June 5, 1986, Indiana University Cyclotron Facility.

2) Commissioning of the K600 Spectrometer - A New Magnetic Spectrometer System for Intermediate Energy Physics at IUCF, Seminar, April 27, 1987, University of Maryland.

3) High Resolution Experiments with the K600 Magnet Spectrometer at IUCF, Seminar, January 20, 1988, Michigan State University.

4) Experimente mit dem hochaufl senden Magnet Spektrographen K600, Seminar, October 5, 1988 Institut f r Kernphysik, Kernforschungsanlage Juelich.

5) The High Resolution Magnet Spectrometer K600 and the Focal Plane Polarimeter at IUCF, seminar, January 6, 1989, Intl. Symp. on Heavy Ion Research with Magnet Spectrometers, East Lansing, MI, 5-7 January, 1989.

6) Eine Magnetanordnung zur Spektroskopie unter 0 grad am IUCF Cooler Ring, 7. CANU Arbeitstreffen, Datenaufnahme und Instrumentierung an COSY, Seminar, Bad Honnef, 18-19 December, 1989.

7) Kleinwinkelspektoskopie am K600 und Spektoskopie unter 0E am IUCF Cooler Ring, Seminar, December 20, 1989, Institut fuer Kernphysik, Kernforschungsanlage Juelich.

8) Spectrograph Experiments at a Cooler Ring, Seminar for Future Accelerator Discussion at Michigan State University, October 7, 1991.

9) Small Angle Experiments with the K600 Spectrometer, Notre Dame Workshop on Giant Resonances and Related Phenomena, October 21-23, 1991.

10) Detector System and Small Angle Modes of the K600 Spectrometer at IUCF, S800 Workshop on Focal Plane Detectors, January 6-7, 1993, MSU-NSCL, East Lansing.

11) Magnet Spectrometer for the IUCF Cooler, Invited talk at 105. WE-Heraeus-Seminar, Hadronic Processes at Small Angles in Storage Rings, February 1993, Bad Honnef, Germany.

12) Experimental Facilities at the IUCF Cyclotron and Cooler Storage Ring, Seminar, October 18, 1993, MSU-NSCL, East Lansing.

13) High Resolution Beam Line and Spectrometer Matching and Feasibility for Grand Raiden, G.P.A. Berg, Dec. 1, 1995, talk at RCNP, Osaka.

14) Conference presentation: Nuclear Reactions Near and at 0^0 Scattering Angles, G.P.A. Berg, Proc.XIV. RCNP Osaka Intl. Symp. Nuclear Reaction Dynamics of Nucleon-Hadron Manybody System, Dec. 6-9, 1995, Osaka, Japan.

15) Invited talk at Workshop on Light Ion Induced Nuclear Reactions and Mechanism, University of Kyushu, Fukuoka, Jan. 6-7, 1997. Title of talk: Nuclear Reaction Experiments at 0^0 Scattering Angles.

16) Seminar talk at RCNP, Jan. 8, 1997, Title of talk: Matching of Beam Line and Spectrometer for High Performance Nuclear Experiments.

17) Seminar talk at HIMAC, Jan. 13, 1997, Accelerator and Experimental Facilities at IUCF.

18) Seminar talk at RIKEN, Jan.14, 1997, Experiments at 0E and Accelerator Projects at IUCF.

19) Seminar talk at RCNP, 3/15/1997, The Grand-Analyzer Project.

20) Invited presentation NSCL User's Workshop on Future Experiments and Detectors for Nuclear Structure and Astropysics at the Upgraded NSCL, MSU-NSCL, Aug. 8-9, 1997, 2Nuclear Reaction and Techniques at 0 Degree Scattering Angles.

21) Seminar talk at IKP, FZ Juelich, June 16, 1998, Kernphysik im Wandel der Zeit - ueber die Kernreaktion (α, ^{8}He) zur Protonentherapy.

22) Invited presentation RCNP WS2000 Scientific Program, March 28-29, 2000, Beam Diagnostics at IUCF for the K600 spectrometer modes.

23) Seminar at Wakasa Wan Energy Research Center, Jan. 16, 2001, The IUCF Proton Therapy Project.

24) Seminar talks at RIKEN, Japan, February 13, 2002, Electro-magnetic Devices in Nuclear Experiments and Facilites, Seminar in two parts: I) Ion-optics and magnet design for nuclear experiments. II) Experiments at) degree and magnet separator TRImP.

25) Presentation at RCNP, Japan, March 13, 2002, The New TRImP Facility at KVI

26) Seminar at the Kyushu University, Fukuoka, Japan, March 1, 2002, High Resolution Particle Spectroscopy in Nuclear Structure and Astrophysics Studies.

27) Presentation at RCNP, April 5, 2002, Nuclear Physics with High Resolution Beams

28) TRImP - A Radioactive Isotope Trapping Facility, Panic 2002 Sept, Osaka, Japan

29) Magnetic Analysis and Matching Techniques in Nuclear Physics, Seminar at the Kyoto University, Dec. 3, 2002

30) Possible spectrometer concept for NESR-collider, Workshop Inelastic Scattering with Radioactive Nuclei, KVI, Groningen, Feb. 19 -22, 2003

31) Ion Optics - An Introduction for Physicists, NIPNET - HITRAP IONCATCHER, Annual Joint Collaboration Meeting, La Londe-les-Maures, 21-25 May, 2003

32) The Current Status of the TRImP Separator, NNV Section K&H Meeting, Lunteren, Oct 10, 2003

33) The Current Status of the TRImP Separator, DPG Spring Meeting, Köln Mar. 8-12, 2004.

34) An Introduction to Ion-Optics, Series of Five Lectures, JINA, University of Notre Dame, Sept. 30-Dec. 9, 2005

35) Experimental Studies for the rp Process, Seminar, Center of Nuclear Study, University of Tokyo, RIKEN Campus, Feb. 20, 2006

36) An Introduction of the Ion-Optics of Magnet Spectrometers, Series of Three Lectures, Center of Nuclear Study, University of Tokyo, ICHOR Project/ RIKEN Nuclear Physics Group, The 14th RIBF Nuclear Seminar, Feb. 27, 2006

37) Status Report e-Spectrometer ELISe at the R3B/EXL/ELISe Collaboration, Apr. 21, 2008 at GSI, Darmstadt, Germany

38) Exploring the ap-process with Grand Raiden, Presentation at the XIII. Intl. Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Aug. 25 - 29, 2008, Cologne, Germany.

39) Commissioning of the SHARAQ Spectrometer, Presentation at the NSL meeting, Unversity of Notre Dame, April 20, 2009

40) First Experiments with the RIBF Facility at RIKEN, Nuclear Seminar, University of Notre Dame, Dept. of Physics, Nov. 23, 2009

41) An introduction to the Ion-Optics of Magnetic Spectrometers and Recoil Separators, Invited series of three lectures and a tutorial, Nov. 15-18,2010, SAHA Institute, Kolkata, India

42) When Stars explode – Cataclysmic Binary Systems and the rp-Process, Invited presentation, Nov. 20, 2010, SAHA Institute, Kolkata, India

43) Beam Delivery Systems, Sixth Int. Summer School onParticle Accelerators and Detectors, Sept 2–7, 2010 Bodrum, Turkey, Invited talk.

44) High precision measurements for the rp-process, Invited talk at the XXXV Symposium on Nuclear Physics, Cocoyoc Jan. 3-6, 2012, Cocoyoc, Mexico

45) Nuclear Astrophysics Program at Grand Raiden and Future Need of High-Resolution Spectroscopy, Invited Presentation at the RCNP Long Range Planning Workshop, March 21-23, 2012.

46) Status of the SECAR Project, Low Energy Community Meeting, Astrophysics Equipment, Argonne National Laboratory, Aug. 17, 2012.

D. Selected Design Notes

1) Search for Fragmented M1 Strength in the ^{48}Ca(p,p) Reaction, D.J. Mercer, G.M. Crawley, S. Danczyk, A. Galonsky, J. Wang, A. Bacher, G.P.A. Berg, A.C. Betker, W. Schmidt, E. Stephenson, IUCF Sci. and Tech. Report 1994-1995, 20

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4) Magnet Mapping at IUCF, G.P.A. Berg, T. Hall, T. Rinckel, IUCF Sci. and Tech. Report 1994-1995, 177

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