

Curriculum Vitae

Prof.dr. M.N. Harakeh
October 2024

Name : Mohsen (Muhsin) N. Harakeh

Address (Work) : University of Groningen
Zernikelaan 25
NL-9747 AA GRONINGEN
The Netherlands
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Tel: +31 50 363 3554
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Email: m.n.harakeh@rug.nl

Address (Home) : Hondsruglaan 18
NL-9722 SE GRONINGEN
The Netherlands

Nationality : Dutch
Gender : Male
Date of birth : 14 December 1947
Place of birth : Baurj-Brajné, Beirut, Lebanon

EDUCATION RECORD

High School

National College of Choueifat, Lebanon

September 1961 - June 1966

Baccalaureate I granted with **Highest Honours** (June 1965)

Baccalaureate II granted with **Highest Honours** (June 1966)

B.Sc.; Major in Physics and Minor in Education.

American University of Beirut, Lebanon

September 1966 - June 1969

B.Sc. granted With **High Distinction** (June 1969)

Summer Student Assistant

Atomic Energy Commission of Denmark, Risø, Denmark

June 1968 - September 1968

Graduate Studies in Physics

S.U.N.Y. at Stony Brook, New York, U.S.A.

September 1969 - December 1974

Qualification Examination (M.Sc.) for Ph.D. Studies in Physics (June 1970)

Ph.D. in Physics (December 1974)

Ph.D. Thesis: "*Dipole excitations in light nuclei*"; Thesis advisor: Prof. Peter Paul

EMPLOYMENT AND CAREER RECORD

Teaching Assistant; scholarship granted by:
S.U.N.Y. at Stony Brook, New York, U.S.A.
September 1969 - August 1970

Research Assistant; scholarship granted by:
S.U.N.Y. at Stony Brook, New York, U.S.A.
September 1970 - December 1974

Research Associate
Kernfysisch Versneller Instituut (KVI), University of Groningen, The Netherlands
January 1975 - June 1977

Research Associate
Niels Bohr Institutet, Copenhagen, Denmark
June 1977 - June 1978

Assistant Professor
KVI, University of Groningen, Groningen, The Netherlands
June 1978 - December 1981

Associate Professor
KVI, University of Groningen, Groningen, The Netherlands
January 1982 - December 1985

Visiting Research Scholar
University of Washington, Seattle, Washington, U.S.A.
January 1983 - December 1983

Full Professor (A) in Experimental Nuclear Physics,
Vrije Universiteit, Amsterdam, The Netherlands,
January 1986 - December 1987

Deputy Head of the Nuclear Physics Group FOM KII
Vrije Universiteit, Amsterdam, The Netherlands
May 1986 - March 1989

Chairman of the Experimental Nuclear Physics Group
Faculteit Natuurkunde en Sterrenkunde
Vrije Universiteit, Amsterdam, The Netherlands
September 1987 - June 1989

Full Professor (B) in Experimental Nuclear Physics,
Vrije Universiteit, Amsterdam, The Netherlands
January 1988 - December 1992

Head of the Nuclear Physics Group FOM K-V
Vrije Universiteit, Amsterdam, The Netherlands
April 1989 - January 1993

Full Professor (B) in Experimental Nuclear Physics
Rijksuniversiteit Groningen, Groningen, The Netherlands
January 1993 - December 2012

Deputy Director KVI
KVI, University of Groningen, Groningen, The Netherlands
January 1993 - December 1995

Visiting Professor
University of Tokyo, Tokyo, Japan
May - July 1993

Director of International Research School FANTOM
University of Groningen, Groningen, The Netherlands
January 1994 - December 1995

Acting Director of International Research School FANTOM
University of Groningen, Groningen, The Netherlands
January 1996 - October 1996

Director KVI
KVI, University of Groningen, Groningen, The Netherlands
January 1996 - December 2008

Visiting professor
University of Osaka
Osaka, Japan
May - August 2006

Visiting professor
GANIL & University of Caen
Caen, France
January 2009 - December 2009

Visiting professor
GSI
Darmstadt, Germany
January 2010 - December 2010

Professor Emeritus
Rijksuniversiteit Groningen, Groningen, The Netherlands
December 2012 – present

Visiting Professor
University of Huelva
Huelva, Spain
July 2014 – December 2014

Visiting professor
University of Osaka
Osaka, Japan
September 2016 - February 2017

MEMBERSHIP OF NATIONAL AND INTERNATIONAL SCIENTIFIC BODIES

Member of the Nuclear Physics National Working Group
May 1986 - February 1993

Member of the Council of Governors of FOM
Foundation FOM, Utrecht, The Netherlands
January 1990 - December 1995

Chairman of Nuclear Physics Summer Schools
The Netherlands
January 1991 - December 1996

Member of the Programme Advisory Committee for the The Svedberg Laboratory
Uppsala, Sweden
January 1990 - April 1999

Member of the Programme Advisory Committee for the Laboratori Nazionali Di Legnaro
Legnaro, Italy
January 1991 - December 1995

Associate Editor
Journal of Nuclear Physics A,
North-Holland (Elsevier), Amsterdam, The Netherlands
April 1994 - present

Member of the Programme Advisory Committee for GANIL
GANIL, Caen, France
January 1995 - December 1999

Member of the Committee RAS (Recycling of Actinides and Fission Fragments)
Ministry of Economic Affairs, The Hague, The Netherlands
January 1996 - December 1998

Member of the OECD Megascience Forum Working Group on Nuclear Physics
OECD, Paris, France
September 1996 - January 1999

Member of Nuclear Physics European Collaboration Committee (NuPECC)
January 1997 - December 2002

Member of writing committees of NuPECC reports
January 1997 - December 2008

Chairman of Nuclear Physics Division of the Dutch Physical Society
February 1997 - September 2006

Member of the Editorial Board of Nuclear Physics News
April 1997 - December 1998

Member of the Programme Advisory Committee for CYCLONE
CRC, Louvain-La-Neuve, Belgium
April 1998 - April 2006

Chairman of the Editorial Board of Nuclear Physics News
January 1999 - February 2003

Member of the Programme Advisory Committee for COSY
FZJ, Jülich, Germany
January 1999 - March 2001

Chairman Evaluation Committee of Research Center for Nuclear Physics
University of Osaka, Osaka, Japan
January 2000

Member of the Advisory Board of the Center for Japanese Studies
University of Groningen, Groningen, The Netherlands
January 2000 – December 2012

Member of Expert Panel for Evaluation Interuniversity Attraction Poles Networks
Belgian Federal Office for Scientific, Technical and Cultural Affairs
Brussels, Belgium
February 2000 - April 2000

Chairman of the NuPECC Subcommittee for Evaluation of the GSI Future Project GSI,
Darmstadt, Germany
April 2001 - September 2001

Chairman of the Programme Advisory Committee for COSY
FZJ, Jülich, Germany
April 2001 - December 2005

Member of the External Scientific Advisory Committee for the GSI Future Project
GSI, Darmstadt, Germany
July 2001

Member of the Beirat (Advisory Board) of the Forschungszentrum Jülich (FZJ)
FZJ, Jülich, Germany
November 2001 - April 2005

Member of Review Panel “Projected Transregional Collaborative Research Centre:
Subnuclear Structure of Matter”
Deutsche Forschungsgemeinschaft, Bonn, Germany
September 2002

Chairman of the Nuclear Physics European Collaboration Committee (NuPECC)
January 2003 - December 2005

Member of the Board of ECT* (European Center for Theoretical Physics and related areas)

ECT*, Trento, Italy

1 January 2003 - December 2005

Member of Review Panel “Projected Transregional Collaborative Research Centre: Kernstruktur, nukleare Astrophysik und fundamentale Experimente bei kleinen Impulsüberträgen am supraleitenden Darmstädter Elektronenbeschleuniger (S-DALINAC)”

Deutsche Forschungsgemeinschaft, Darmstadt, Germany

February 2003

Member of the External Advisory Committee on GSI Structure

GSI, Darmstadt, Germany

June 2003 - December 2003

Member of the International Scientific Advisory Committee on SPIRAL2

GANIL, Caen, France

September 2003 - December 2005

Member of the Peer Review Panel of University Trento

University of Trento, Trento, Italy

October 2003

Member of the Ad-Hoc Committee of C12 (IUPAP Commission on Nuclear Physics):
“International Committee for Cooperation in Nuclear Physics”

January 2004 - December 2005

Member of the RIKEN RI Beam Factory International Advisory Committee

RIKEN, Tokyo, Japan

November 2004

Member of the Review Committee of iThemba Laboratory for Accelerator Based Sciences (iThemba LABS)

iThemba, Stellenbosch, South Africa

November 2004

Associate Editor Physical Review C

American Institute of Physics, New York, U.S.A.

1 January 2005 - 30 January 2008

Member of the Evaluation Committee of Institute de Physique Nucléaire

IPNO, Orsay, France

May 2005

Member of the External Peer Review Panel of the CSIC “Theoretical and Experimental Physics” Activities
CSIC, Granada, Spain
September 2005

Member of the FWO (Fonds voor Wetenschappelijk Onderzoek Vlaanderen) Board, Committee Subatomic Physics
FWO, Brussels, Belgium
October 2005 - December 2009

Member of NuPECC
January 2006 - December 2008

Member of the Working Group (WG9) of C12 (IUPAP) on “International Cooperation in Nuclear Physics”
January 2006 - December 2008

Vice Chairman of the Science Programme Advisory Council for Hadron Physics at Forschungszentrum Jülich
FZJ, Jülich, Germany
January 2006 - December 2010

Member of Evaluation Committee of Research Center for Nuclear Physics
University of Osaka, Osaka, Japan
February 2006

Advisor on Education and Research Capacity Planning for Two-year Master Programmes in Flanders
Brussels, Belgium
February 2006 - March 2006

Chairman of Scientific Advisory Committee of SPIRAL2
GANIL, Caen, France
February 2006 - December 2012

Member of the Programme Advisory Committee of the “Stichting Integrated Development Lab (IDL)”
Foundation IDL, Assen, The Netherlands
October 2006 - December 2009

Research Fellow of the “Energy Delta Research Centre (EDReC)”
EDReC, University of Groningen, Groningen, The Netherlands
November 2006 - December 2010

Chairman of the Steering Group Groningen-Osaka
University of Groningen, Groningen, The Netherlands
November 2006 - December 2010

Member of the Starting (StG) and Consolidator (CoG) Grant Panel PE2 “Fundamental Constituents of Matter” of the European Research Council (ERC)
European Commission, Brussels, Belgium
January 2007 – December 2013

Member of the Council of the NUSTAR Collaboration
GSI, Darmstadt, Germany
January 2007 – December 2018

Member of the Core Group “GANIL Prospectives 2015”
GANIL, Caen, France
January 2008 - April 2009

Member of the Committee for the Midterm evaluation of “Technische Natuurkunde” of the Dutch Technical Universities
Delft, Eindhoven and Twente, The Netherlands
October 2008

Chair of the Governing Council of NuPNET (European network of Nuclear Physics funding agencies)
October 2008 - November 2011

Member of Scientific Advisory Board
The Henryk Niewodniczanski Institute of Nuclear Physics of the Polish Academy of Sciences (IFJ PAN)
Krakow, Poland
January 2009 – June 2012

Chairman of the LIBRA Programme Advisory Committee
Tandem Accelerator Laboratory, Institute of Nuclear Physics
NCSR “Demokritos”, Athens, Greece
January 2009 – December 2014

Member of the Evaluation Panel of the Physics Department
Université Libre de Bruxelles, Brussels, Belgium
March 2009 – June 2009

Member of the Spanish Evaluation Panel for the Particle Physics Projects in 2009
CSIC, Madrid, Spain
May 2009

Expert Chair/Principal Expert of the CEA-Eurotalents Programme for the field ‘High energy physics and physics of the Universe’
CEA, Saclay, France
July 2009 – July 2013

Member of the FWO (Fonds voor Wetenschappelijk Onderzoek Vlaanderen) Committee W&T2 ‘Physics’
FWO, Brussels, Belgium
January 2010 – December 2014

Member of the External Counselling Body (Advisory/Review Committee) of ATOMKI/Hungarian Academy of Sciences
Debrecen, Hungary
January 2010 - present

Member of the “Prix Dr. A. De Leeuw-Damry-Bourlart – Basic exact Sciences”
Fonds de la Recherche Scientifique - FNRS (F.R.S. - FNRS)
Brussels, Belgium
May 2010

Member of Beam-time Programme Advisory Committee (B-PAC) of Research Center for Nuclear Physics
RCNP, Osaka, Japan
April 2010 - July 2013

Coordinator of EU-FP7 funded Integrating Activity ENSAR (European Nuclear Science and Applications Research)
Integrated Infrastructure Initiative “Integrating Activity”, Capacities
European Commission Seventh Framework Programme, Brussels, Belgium
1 September 2010 – 31 December 2014

Chairman Audit Committee GANIL, under auspices of AERES (the French evaluation agency for research)
Caen, France
November 2010 - April 2011

Deputy Panel Chair of the Starting (StG) and Consolidator (CoG) Grant Panel PE2 “Fundamental Constituents of Matter” of the European Research Council (ERC)
European Commission, Brussels, Belgium
November 2010 - July 2011

Chairman of Beam-time Programme Advisory Committee (B-PAC) of Research Center for Nuclear Physics
RCNP, Osaka, Japan
April 2011 - July 2012

Member of the Programme Advisory Committee for Nuclear-Physics Experiments at RIKEN RI Beam Factory
RIKEN, Tokyo, Japan
January 2011 – December 2014

Member of the Evaluation Board of “GANIL PhD Award 2011”
GANIL, Caen, France
May 2011 - July 2011

Member of the Advisory Committee of the Center for Nuclear Study (CNS-AC)
University of Tokyo, Tokyo, Japan
June 2011 - July 2011

Chairman of the Expert Panel 3 “Physics and mathematics”; Evaluation of the Department
of Physics and astronomy and the Department of Mathematics
Katholieke Universiteit Leuven, Leuven, Belgium
June 2011 - November 2011

Member of the International INFN Internal Evaluation Committee (CVI)
INFN, Roma, Italy
June 2011 – December 2019

Chairman of the Scientific and Technical Council (CST: Conseil Scientifique et
Technique) of Institut de Physique Nucléaire d’Orsay (IPNO)
IPNO, Orsay, France
July 2011 – December 2016

Member of Audit Committee IPHC and GRPHE, under auspices of AERES (the French
evaluation agency for research)
Strasbourg, France
November 2011 - April 2012

Member of P2IO (Physics of the two Infinities and of the Origins) Scientific Council
IN2P3/CNRS, Paris, France
February 2012 – December 2019

Chairman of the NVAO (Nederlands-Vlaamse Accreditatieorganisatie) Committee for
accreditation of the new university master programme "Science and Technology of Nuclear
Fusion" of the TU Eindhoven
Eindhoven, the Netherlands
June 2012 - August 2012

Member of the Physical Sciences Panel of Experts
The Italian Research and University Evaluation Agency (ANVUR); Italian Ministry for
Education, University and Research (MIUR)
Rome, Italy
June 2012 – December 2015

Member of the International Advisory Committee of the Cyclotron Center of Bronowice (CCB)
The Henryk Niewodniczanski Institute of Nuclear Physics of the Polish Academy of Sciences (IFJ PAN), Krakow, Poland
July 2012 - present

Chairman AE Section Physics and Engineering
The Academy of Europe (Academia Europaea)
London, United Kingdom
September 2012 – December 2018

Chairman of the Science Advisory Committee (SFB 634 – SAC) of the Collaborative Research Center (Sonderforschungsbereich) SFB 634 “*Nuclear Structure, Nuclear Astrophysics and Fundamental Experiments at Low Momentum Transfer at the Superconducting Darmstadt Accelerator (S-DALINAC)*”
Institut für Kernphysik, Technische Universität Darmstadt, Darmstadt, Germany
October 2012 – December 2015

Member of the Management Board of the FAIR Super-FRS Experiment Collaboration
GSI, Darmstadt, Germany
November 2012 – present

Deputy Panel Chair of the Consolidator Grant (CoG) Panel PE2 “Fundamental Constituents of Matter” of the European Research Council (ERC)
European Commission, Brussels, Belgium
January 2013 – December 2013

Vice-Chairman of the GANIL/SPIRAL2 Scientific Council
GANIL, Caen, France
January 2013 – September 2017

Member of the Committee for the Evaluation of Candidates for the Position of the Director of the Institute of Nuclear and Particle Physics (INPP) of the National Center for Scientific Research (NCSR) “Demokritos”
Demokritos, Athens, Greece
February 2013 – June 2013

Chairman Audit Committee IPNO, under auspices of AERES (the French evaluation agency for research)
Orsay, France
July 2013 – April 2014

Chairman of the Programme Advisory Committee for Nuclear-Physics Experiments at RIKEN RI Beam Factory
RIKEN, Tokyo, Japan
July 2013 – December 2014

Chairman of the International Advisory Committee of the Cyclotron Center of Bronowice (CCB)
The Henryk Niewodniczanski Institute of Nuclear Physics of the Polish Academy of Sciences (IFJ PAN)
Krakow, Poland
July 2013 - present

Expert reviewer of Greek Evaluation Committee: Evaluation of proposals for National Roadmap for Research Infrastructures
General Secretariat for Research & Technology (GSRT)
Athens, Greece
October 2013 – January 2014

Member of review panel of “IAEA’s Regular Programme Activities in Materials Science and Analytical Applications through Particle Accelerators, Nuclear Spectrometry and Related Instrumentation”
Office of Internal Oversight Services of the International Atomic Energy Agency
IAEA, Vienna, Austria
October 2013 – January 2014

Expert reviewer of Polish Evaluation Committee: Evaluation of proposals for Polish Roadmap for Research Infrastructures
Polish Ministry of Science and Higher Education
Warsaw, Poland
December 2013 – January 2014

Member of the Experts Panel of Marie Curie COFUND Programme within the EU 7th Framework Programme "PISCOPIA",
University of Padova, Padova, Italy
January 2014 – June 2014

Chair of the LINCE-Project Technical Review Panel (PTRP)
Universidad de Huelva, Huelva, Spain
February 2014 – June 2014

Chair of SUBATECH International Scientific Council
SUBATECH Laboratory, Nantes, France
February 2014 – December 2018

Chair of the Scientific Advisory Committee of EWIRA (East West Integrated Research Activities)
Bucharest-Magurele, Romania
May 2014 – December 2014

Expert Chair/Principal Expert of the CEA Enhanced Eurotalents (E2) Programme for the field ‘High energy physics, high energy density physics and physics of the Universe (HEPPU)’

CEA, Saclay, France

June 2014 – December 2018

Vice-Chair of the International Scientific Advisory Board (ISAB) of Extreme Light Infrastructure – Nuclear Physics (ELI-NP)

IFIN-HH, Bucharest-Magurele, Romania

June 2014 – September 2020

Chairman of the Programme Advisory Committee of the Tandem Accelerator Laboratory, Institute of Nuclear and Particle Physics (INPP)

National Centre for Scientific Research “Demokritos” (NCSR), Athens, Greece

January 2015 – September 2017

Member of the International Scientific Advisory Committee (ISAC),

Institute of Nuclear and Particle Physics (INPP)

National Centre for Scientific Research “Demokritos” (NCSR), Athens, Greece

January 2015 – September 2017

Member of the “Search and Evaluation committee for the LNS (Laboratori Nazionali del Sud) Director”

INFN, Rome, Italy

March 2015

Member of the Editorial Board

Heliyon, Elsevier’s Open Access Journal

North-Holland (Elsevier), Amsterdam, The Netherlands

May 2015 – December 2015

Technical Director of the FAIR Super-FRS Experiment Collaboration

GSI, Darmstadt, Germany

January 2016 – present

Member of the Scientific Council of the IFMIF-DONES/ELAMAT (European

Laboratory of Material testing) initiative in Poland

Rzeszów, Poland

January 2016 – December 2017

Member of the European Physical Society (EPS) Advisory Board on Science Policy (ABSP)

Muhlhouse, France

March 2016 – March 2020

Coordinator of EU-Horizon 2020 funded Integrating Activity ENSAR2 (European Nuclear Science and Applications Research 2)
Integrated Infrastructure Initiative “Integrating Activity”, European Commission Horizon 2020 Framework Programme, Brussels, Belgium
1 March 2016 – 31 August 2021

Member of the “Search and Evaluation committee for the LNL (Laboratori Nazionali di Legnaro) Director”
INFN, Rome, Italy
May 2016

Member of the ELI (Extreme Light Infrastructure) International Scientific and Technical Advisory Committee (ELI-ISTAC)
ELI Delivery Consortium (ELI-DC)
Belgium (legal seat, Brussels), Czech Republic (Prague, Dolní Břežany Office), Hungary (Budapest, Szeged Office), Romania (Bucharest, Măgurele Office)
May 2016 – present

Member of the Expert Panel for the “Workshop on Nuclear Physics in South Africa” (October 26-28, 2016).
Evaluation of Accelerator-Based Sciences in South Africa
iThemba LABS, Stellenbosch, South Africa
October 2016 - November 2016

Member of the International Advisory Board (IAB) of the National Institute of Science and Technology (Instituto Nacional de Ciência e Tecnologia), Section “Nuclear Physics and Applications” (INCT/FNA)
Rio de Janeiro, Brasil
February 2017 – present

Chairman of the Scientific and Technical Advisory Committee of CALIBRA infrastructure at "Demokritos"
Institute of Nuclear and Particle Physics (INPP)
National Centre for Scientific Research “Demokritos” (NCSR), Athens, Greece
October 2017 – present

Member of the “Search and Evaluation committee for the LNS (Laboratori Nazionali del Sud) Director”
INFN, Rome, Italy
March 2019

Member of the Selection Committee of “GANIL Thesis Award 2019”
GANIL, Caen, France
June 2019 - August 2019

Chair of the External Review Committee of the Center for Nuclear Study (CNS)
Graduate School of Science, the University of Tokyo
Tokyo, Japan
January 2020 - February 2020

Member of the Scientific and Technical Advisory Committee (STAC) of iThemba LABS
iThemba LABS, Faure, South Africa
January 2020 - present

Chair of the International Scientific Advisory Board (ISAB) of Extreme Light
Infrastructure – Nuclear Physics (ELI-NP)
IFIN-HH, Bucharest-Magurele, Romania
September 2020 – present

Member of the International Advisory Board of the Eötvös Loránd Research Network
Budapest, Hungary
January 2021 – September 2023

Member of the International Expert Advisory Board of the Discipline Committee of the
Czech Science Foundation (GAČR)
Prague, Czech Republic
March 2021 – present

Member of the International Assessment Team for the World Bank and the Serbian
Government of the R&D institute (RDI) of Nuclear Sciences “Vinča”
Belgrade, Serbia
October 2021 – April 2022

Member of Editorial Board of “Physics and Astronomy Reports”
Istanbul University Press
Istanbul, Turkey
November 2022 – present

Member of the Assessment Committee of The Institute for Nuclear Research
(ATOMKI) member of the Hungarian Research Network (HUN-REN)
Budapest, Hungary
January 2021 – Present

Member of many International Advisory Committees of international conferences,
symposia, workshops, etc.

Chairman and member of many organizing committees of international conferences,
summer schools (see under seminars and invited talks)

MEMBERSHIP OF SOCIETIES AND AWARDS

American International Development (AID) Scholarship for
B.Sc. studies at American University of Beirut, Lebanon
1966 - 1969

Fulbright scholarship (+ Travel Grant)
U.S. State Department, Washington D.C., U.S.A.
1969 - 1974

Member of the American Physical Society
1972 - present

Member of the Dutch Physical Society
1978 - present

Member of the Rotary Club
1995 - 2014

Member of the Board of the Groningen-Jabalya Foundation
2002 - present

Member of the European Physical Society
2008 - present

Award of Research Fellow of the Japanese Society for Promotion of Science
1993

Fellow of the American Physical Society
1994 - present

Medal of the Hellenic Nuclear Physics Society
Athens, Greece
May 2005

Award of Research Fellow of the Japanese Society for Promotion of Science
2006

Member of the Academy of Europe (Academia Europaea)
January 2008 – present

Chairman AE Section Physics and Engineering
The Academy of Europe (Academia Europaea)
September 2012 – December 2018

Decoration as officer in the order of Oranje-Nassau
April 2008

Academy medal of the University of Groningen
Groningen, the Netherlands
December 2008

Medal of the Henryk Niewodniczanski Institute of Nuclear Physics of the Polish
Academy of Sciences (IFJ PAN)
Krakow, Poland
December 2012

Medal of the The Svedberg Laboratory
Uppsala, Sweden
December 2012

GENCO (GSI Exotic Nuclei Community) Membership Award 2016
GSI, Darmstadt, Germany
March 2016

Honorary Professor
The Henryk Niewodniczanski Institute of Nuclear Physics of the Polish Academy of
Sciences (IFJ PAN)
Krakow, Poland
October 2022 - present

LIST OF PUBLICATIONS

M.N. Harakeh

ARTICLES in journals

- 001 “El transitions in ^{17}F . I. The low-lying $T = 3/2$ states”
M.N. Harakeh, P. Paul and K.A. Snover
Phys. Rev. C11 (1975) 998-1007
- 002 “El transitions in ^{17}F . II. The region of the giant resonances”
M.N. Harakeh, P. Paul and Ph. Gorodetzky
Phys. Rev. C11 (1975) 1008-1014
- 003 “El excitations in $A = 15$ nuclei”
M.N. Harakeh, P. Paul, H.M. Kuan and E.K. Warburton
Phys. Rev. C12 (1975) 1410-1422
- 004 “Excitation of negative parity states ($1^-, 3^-, T=0$) in ^{16}O in inelastic alpha scattering”
M.N. Harakeh, J.R. Comfort and A. van der Woude
Phys. Lett. B62 (1976) 155-158; Erratum: B76 (1978) 663
- 005 “A study of the isoscalar giant quadrupole resonance and other collective states in ^{16}O excited by inelastic alpha scattering at $E_\alpha = 104$ MeV”
M.N. Harakeh, A.R. Arends, M.J.A. de Voigt, A.G. Drentje, S.Y. van der Werf and A. van der Woude
Nucl. Phys. A265 (1976) 189-212; Erratum: A280 (1977) 500
- 006 “A high resolution study of the giant resonance region in ^{28}Si by inelastic α -particle scattering”
K. van der Borg, M.N. Harakeh, S.Y. van der Werf, A. van der Woude and F.E. Bertrand
Phys. Lett. B67 (1977) 405-408
- 007 “The $^{116}\text{Sn}(d,t)^{115}\text{Sn}$ reaction and the investigation of deeply bound hole states in the odd- A tin isotopes”
S.Y. van der Werf, M.N. Harakeh, L.W. Put, O. Scholten and R.H. Siemssen
Nucl. Phys. A289 (1977) 141-164
- 008 “Proton hole states in ^{114}Cd excited in the $^{115}\text{In}(d,^3\text{He})^{114}\text{Cd}$ reaction at $E_d = 50$ MeV”
D.C.J.M. Hageman, M.N. Harakeh, R.H. Siemssen and S.Y. van der Werf
Nucl. Phys. A290 (1977) 1-13
- 009 “Direct evidence for a new giant resonance at $80 A^{-1/3}$ MeV in the lead region”
M.N. Harakeh, K. van der Borg, T. Ishimatsu, H.P. Morsch, A. van der Woude and F.E. Bertrand
Phys. Rev. Lett. 38 (1977) 676-680

LIST OF PUBLICATIONS

M.N. Harakeh

ARTICLES in journals

- 010 “Giant quadrupole resonance in $^{24,26}\text{Mg}$: A comparison of inelastic-scattering and α -capture experiments”
F.E. Bertrand, K. van der Borg, A.G. Drentje, M.N. Harakeh, J. van der Plicht and A. van der Woude
Phys. Rev. Lett. 40 (1978) 635-638
- 011 “Total kinetic energy release in the fission of excited nuclei”
P. David, J. Debrus, J. Schulze, M.N. Harakeh, J. van der Plicht, A. van der Woude and H.P. Morsch
South Afr. Jour. Phys. 1 (1978) 241
- 012 “Proton hole states in ^{63}Co and ^{63}Cu ”
O. Hansen, M.N. Harakeh, J.V. Maher, L.W. Put and J.C. Vermeulen
Nucl. Phys. A313 (1979) 95-108
- 013 “Excitation of ground and gamma bands in the $^{24}\text{Mg}(\alpha, \alpha')^{24}\text{Mg}$ reaction at 120 MeV”
K. van der Borg, M.N. Harakeh and B.S. Nilsson
Nucl. Phys. A325 (1979) 31-44
- 014 “Isoscalar excitations in the lead region observed in inelastic α -scattering at $E_\alpha = 120$ MeV”
M.N. Harakeh, B. van Heyst, K. van der Borg and A. van der Woude
Nucl. Phys. A327 (1979) 373-396
- 015 “Inhibition of the fission decay channel of the isoscalar giant quadrupole resonance in the actinide region”
J. van der Plicht, M.N. Harakeh, A. van der Woude, P. David and J. Debrus
Phys. Rev. Lett. 42 (1979) 1121-1124
- 016 “On the excitation of isoscalar dipole strength in the giant resonance region by inelastic electron and hadron scattering”
M.N. Harakeh
Phys. Lett. B90 (1980) 13-16
- 017 “The supersymmetry scheme and E2 transition rates in the Pt region”
M.N. Harakeh, P. Goldhoorn, Y. Iwasaki, J. Lukasiak, L.W. Put, S.Y. van der Werf and F. Zwarts
Phys. Lett. B97 (1980) 21-24
- 018 “Isoscalar giant resonances in ^{232}Th ”
M.N. Harakeh, H.P. Morsch, K. van der Weg, A. van der Woude and F.E. Bertrand
Phys. Rev. C21 (1980) 768-771

LIST OF PUBLICATIONS

M.N. Harakeh

ARTICLES in journals

- 019 “The $^{48}\text{Ca}(^3\text{He},t)^{48}\text{Sc}$ reaction at 66 and 70 MeV. Reaction mechanism and Gamow-Teller strength”
C. Gaarde, J.S. Larsen, M.N. Harakeh, S.Y. van der Werf, M. Igarashi and A. Müller-Arnke
Nucl. Phys. A334 (1980) 248-268
- 020 “On the excitation of isovector dipole strength by inelastic proton scattering in the giant resonance region in light nuclei”
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- 419 “Fragmentation of single-particle strength around doubly-magic ^{132}Sn and the position of the $0f_{5/2}$ proton-hole state in ^{131}In ”
V. Vaquero, A. Jungclaus, T. Aumann, J. Tscheuschner, E.V. Litvinova, J.A. Tostevin, H. Baba, D.S. Ahn, R. Avigo, K. Boretzky, A. Bracco, C. Caesar, A. Camera, S. Chen, V. Derya, P. Doornenbal, J. Endres, N. Fukuda, U. Garg, A. Giaz, M.N. Harakeh, M. Heil, A. Horvat, K. Ieki, N. Imai, N. Inabe, N. Kalantar-Nayestanaki, N. Kobayashi, Y. Kondo, S. Koyama, T. Kubo, I. Martel, M. Matsushita, B. Million, T. Motobayashi, T. Nakamura, N. Nakatsuka, M. Nishimura, S. Nishimura, S. Ota, H. Otsu, T. Ozaki, M. Petri, R. Reifarh, J.L. Rodríguez-Sánchez, D. Rossi, A.T. Saito, H. Sakurai, D. Savran, H. Scheit, F. Schindler, P. Schrock, D. Semmler, Y. Shiga, M. Shikata, Y. Shimizu, H. Simon, D. Steppenbeck, H. Suzuki, T. Sumikama, D. Symochko, I. Syndikus, H. Takeda, S. Takeuchi, R. Taniuchi, Y. Togano, J. Tsubota, H. Wang, O. Wieland, K. Yoneda, J. Zenihiro, and A. Zilges
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- 420 “Study of spin-isospin responses of radioactive nuclei with the background-reduced neutron spectrometer, PANDORA”
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- 421 “Compression-mode resonances in the calcium isotopes and implications for the asymmetry term in nuclear incompressibility”
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- 422 “Testing *ab initio* nuclear structure in neutron-rich nuclei: Lifetime measurements of second 2^+ state in ^{16}C and ^{20}O ”
M. Ciemala, S. Ziliani, F.C.L. Crespi, S. Leoni, B. Fornal, A. Maj, P. Bednarczyk, G. Benzoni, A. Bracco, C. Boiano, S. Bottoni, S. Brambilla, M. Bast, M. Beckers, T. Braunroth, F. Camera, N. Cieplicka-Oryńczak, E. Clément, S. Coelli, O. Dorvaux, S. Erturk, G. De France, C. Fransen, A. Goldkuhle, J. Grębosz, M.N. Harakeh, Ł.W. Iskra, B. Jacquot, A. Karpov, M. Kicińska-Habior, Y. Kim, M. Kmiecik, A. Lemasson, S.M. Lenzi, M. Lewitowicz, H. Li, I. Matea, K. Mazurek, C. Michelagnoli, M. Matejska-Minda, B. Million, C. Müller-Gatermann, V. Nanal, P. Napiorkowski, D.R. Napoli, R. Palit, M. Rejmund, Ch. Schmitt, M. Stanoiu, I. Stefan, E. Vardaci, B. Wasilewska, O. Wieland, M. Ziębliński, M. Zielińska, A. Atac, D. Barrientos, B. Birkenbach, A.J. Boston, B. Cederwall, L. Charles, J. Collado, D.M. Cullen, P. Desesquelles, C. Domingo-Pardo, J. Dudouet, J. Eberth, V. Gonzalez, J. Goupil, L.J. Harkness-Brennan, H. Hess, D.S. Judson, A. Jungclaus, W. Korten, M. Labiche, A. Lefevre, R. Menegazzo, D. Mengoni, J. Nyberg, R.M. Perez-Vidal, Zs. Podolyák, A. Pullia, F. Recchia, P. Reiter, F. Saillant, M.D. Salsac, E. Sanchis, O. Stezowski, Ch. Theisen, J.J. Valiente-Dobon, J.D. Holt, J. Menéndez, A. Schwenk, and J. Simonis
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- 423 “Gamow-Teller strength distributions of ^{116}Sb and ^{122}Sb using the $(^3\text{He},t)$ charge-exchange reaction”
C.A. Douma, T. Agodi, H. Akimune, M. Alanssari, F. Cappuzzello, D. Carbone, M. Cavallaro, G. Colò, F. Diel, H. Ejiri, D. Frekers, H. Fujita, Y. Fujita, M. Fujiwara, G. Gey, M.N. Harakeh, K. Hatanaka, F. Hattori, K. Heguri, M. Holl, A. Inoue, N. Kalantar-Nayestanaki, Y.F. Niu, P. Puppe, P.C. Ries, A. Tamii, V. Wemer, R.G.T. Zegers, and K. Zuber
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- 424 “Novel multi-layer plastic-scintillator-based solid active proton target for inverse-kinematics experiments”
D.T. Tran, S. Terashima, H.J. Ong, K. Hirakawa, Y. Matsuda, N. Aoi, M.N. Harakeh, M. Itoh, T. Kawabata, A. Kohda, S.Y. Matsumoto, T. Nishi, J. Okamoto, and I. Tanihata
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- 425 “Spin-dipole nuclear matrix element for the double-beta decay of ^{76}Ge by the $(^3\text{He},t)$ charge-exchange reaction”
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- 426 “Extending the Southern Shore of the Island of Inversion to ^{28}F ”
A. Revel, O. Sorlin, F.M. Marqués, Y. Kondo, J. Kahlbow, T. Nakamura, N.A. Orr, F. Nowacki, J.A. Tostevin, C.X. Yuan, N.L. Achouri, H. Al Falou, L. Atar, T. Aumann, H. Baba, K. Boretzky, C. Caesar, D. Calvet, H. Chae, N. Chiga, A. Corsi, H.L. Crawford, F. Delaunay, A. Delbart, Q. Deshayes, Z. Dombrádi, C. Douma, Z. Elekes, P. Fallon, I. Gašparić, J.-M. Gheller, J. Gibelin, A. Gillibert, M.N. Harakeh, W. He, A. Hirayama, C.R. Hoffman, M. Holl, A. Horvat, Á. Horváth, J.W. Hwang, T. Isobe, N. Kalantar-Nayestanaki, S. Kawase, S. Kim, K. Kisamori, T. Kobayashi, D. Körper, S. Koyama, I. Kuti, V. Lapoux, S. Lindberg, S. Masuoka, J. Mayer, K. Miki, T. Murakami, M. Najafi, K. Nakano, N. Nakatsuka, T. Nilsson, A. Obertelli, F. de Oliveira Santos, H. Otsu, T. Ozaki, V. Panin, S. Paschalis, D. Rossi, A. Saito, T. Saito, M. Sasano, H. Sato, Y. Satou, H. Scheit, F. Schindler, P. Schrock, M. Shikata, Y. Shimizu, H. Simon, D. Sohler, L. Stuhl, S. Takeuchi, M. Tanaka, M. Thoennessen, H. Törnqvist, Y. Togano, T. Tomai, J. Tscheuschner, J. Tsubota, T. Uesaka, Z. Yang, M. Yasuda, and K. Yoneda (SAMURAI21 collaboration)
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- 428 “Compressional-mode resonances in the molybdenum isotopes: Emergence of softness in open-shell nuclei near $A=90$ ”
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N. Cieplicka-Oryńczak, B. Fornal, M. Ciemała, M. Kmiecik, A. Maj, J. Łukasik, P. Pawłowski, B. Sowicki, B. Wasilewska, M. Ziębliński, J. Grębosz, M. Krzysiek, M. Matejska-Minda, K. Mazurek, Y. Jaganathen, S. Leoni, C. Boiano, S. Brambilla, S. Ziliani, S. Bottoni, A. Bracco, F. Camera, Ł.W. Iskra, M.N. Harakeh, C. Clisu, N. Florea, N. Marginean, R. Marginean, L. Stan, I. Burducea, D.A. Iancu, M. Sferrazza, M. Płoszajczak, and P. Kulesa
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- 430 “Study of multi-neutron systems with SAMURAI spectrometer”
Z.H. Yang, F.M. Marqués, N.L. Achouri, D.S. Ahn, T. Aumann, H. Baba, D. Beaumel, M. Böhmer, K. Boretzky, M. Caamaño, S. Chen, N. Chiga, M.L. Cortés, D. Cortina, P. Doornenbal, C.A. Douma, F. Dufter, J. Feng, B. Fernández-Domínguez, Z. Elekes, U. Forsberg, T. Fujino, N. Fukuda, I. Gašparić, Z. Ge, R. Gernhäuser, J.M. Gheller, J. Gibelin, A. Gillibert, B.M. Godoy, Z. Halász, T. Harada, M.N. Harakeh, A. Hirayama, S.W. Huang, N. Inabe, T. Isobe, J. Kahlbow, N. Kalantar-Nayestanaki, D. Kim, S. Kim, M. A. Knösel, T. Kobayashi, Y. Kondo, P. Koseoglou, Y. Kubota, I. Kuti, C. Lehr, P.J. Li, Y. Liu, Y. Maeda, S. Masuoka, M. Matsumoto, J. Mayer, H. Miki, M. Miwa, I. Murray, T. Nakamura, A. Obertelli, N. Orr, H. Otsu, V. Panin, S. Park, M. Parlog, S. Paschalis, M. Potlog, S. Reichert, A. Revel, D. Rossi, A. Saito, M. Sasano, H. Sato, H. Scheit, F. Schindler, T. Shimada, Y. Shimizu, S. Shimoura, I. Stefan, S. Storck, L. Stuhl, H. Suzuki, D. Symochko, H. Takeda, S. Takeuchi, J. Tanaka, Y. Togano, T. Tomai, H.T. Törnqvist, J. Tscheuschner, T. Uesaka, V. Wagner, K. Wimmer, H. Yamada, B. Yang, L. Yang, Y. Yasuda, K. Yoneda, L. Zanetti, and J. Zenihiro
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- 432 “Signature of a possible α -cluster state in $N = Z$ doubly-magic ^{56}Ni ”
S. Bagchi, H. Akimune, J. Gibelin, M.N. Harakeh, N. Kalantar-Nayestanaki, N.L. Achouri, B. Bastin, K. Boretzky, H. Bouzomita, M. Caamaño, L. Càceres, S. Damoy, F. Delaunay, B. Fernández-Domínguez, M. Fujiwara, U. Garg, G.F. Grinyer, O. Kamalou, E. Khan, A. Krasznahorkay, G. Lhoutellier, J. F. Libin, S. Lukyanov, K. Mazurek, M.A. Najafi, J. Pascin, Y. Penionzkhevich, L. Perrot, R. Raabe, C. Rigollet, T. Roger, S. Sambhi, H. Savajols, M. Senoville, C. Stodel, L. Suen, J.C. Thomas, M. Vandebrouck, and J. Van de Walle
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- 433 “Study of spin-isospin response of ^{11}Li neutron-drip-line nucleus with PANDORA”
L. Stuhl, M. Sasano, J. Gao, Y. Hirai, K. Yako, T. Wakasa, D.S. Ahn, H. Baba, A.I. Chilug, S. Franchoo, Y. Fujino, N. Fukuda, J. Gibelin, I. S. Hahn, Z. Halász, T. Harada, M.N. Harakeh, D. Inomoto, T. Isobe, H. Kasahara, D. Kim, G.G. Kiss, T. Kobayashi, Y. Kondo, Z. Korkulu, S. Koyama, Y. Kubota, A. Kurihara, H.N. Liu, M. Matsumoto, S. Michimasa, H. Miki, M. Miwa, T. Motobayashi, T. Nakamura, M. Nishimura, H. Otsu, V. Panin, S. Park, A.T. Saito, H. Sakai, H. Sato, T. Shimada, Y. Shimizu, S. Shimoura, A. Spiridon, I.C. Stefanescu, X. Sun, Y.L. Sun, H. Suzuki, Y. Togano, T. Tomai, L. Trache, D. Tudor, T. Uesaka, H. Yamada, Z. Yang, M. Yasuda, K. Yoneda, K. Yoshida, J. Zenihiro, and N. Zhang
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- 434 “Search for η' -mesic nuclei using (p,d) reaction with FRS/Super-FRS at GSI/FAIR”
Y.K. Tanaka, S. Bagchi, J. Benlliure, T. Dickel, V. Drozd, H. Ekawa, H. Fujioka, H. Geissel, F. Goldenbaum, C. Guo, E. Haettner, M.N. Harakeh, R.S. Hayano, S. Hirezaki, C. Hornung, Y. Igarashi, N. Ikeno, K. Itahashi, M. Iwasaki, D. Jido, N. Kalantar-Nayestanaki, R. Kanungo, B. Kindler, R. Knöbel, D. Kostyleva, N. Kurz, N. Kuzminchuk, B. Lommel, Y. Ma, S.Y. Matsumoto, V. Metag, S. Minami, P. Moskal, I. Mukha, T. Nagae, H. Nagahiro, M. Nakagawa, H.J. Ong, H. Outa, S. Pietri, W. R. Plass, A. Prochazka, S. Purushothaman, C. Rappold, J. Ritman, J.L. Rodríguez-Sánchez, R. Ruber, O. Rundel, T.R. Saito, C. Scheidenberger, R. Sekiya, V. Serdyuk, H. Simon, B. Sitar, M. Skurzok, P. Strmen, B. Sun, I. Szarka, M. Takechi, I. Tanihata, S. Terashima, H. Weick, A. Yamamoto, and J. Zhao (η -PRiME/Super-FRS Experiment Collaboration)
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- 435 “Radioactive beams for image-guided particle therapy: the BARB experiment at GSI”
Daria Boscolo, Daria Kostyleva, Mohammad Javad Safari, Vasiliki Anagnostatou, Juha Äystö, Soumya Bagchi, Tim Binder, Georgios Dedes, Peter Dendooven, Timo Dickel, Vasyl Drozd, Bernhard Franczack, Hans Geissel, Chiara Gianoli, Christian Graeff, Tuomas Grahn, Florian Greiner, Emma Haettner, Roghieh Haghani, Muhsin N. Harakeh, Felix Horst, Christine Hornung, Jan-Paul Hucka, Nasser Kalantar-Nayestanaki, Erika Kazantseva, Birgit Kindler, Ronja Knöbe, Natalia Kuzminchuk-Feuerstein, Bettina Lommel, Ivan Mukha, Chiara Nociforo, Shunki Ishikawa, Giulio Lovatti, Munetaka Nitta, Ikechi Ozoemelum, Stephane Pietri, Wolfgang R. Plaß, Andrej Prochazka, Sivaji Purushothaman, Claire-Anne Reidel, Heidi Roesch, Fabio Schirru, Christoph Schuy, Olga Sokol, Timo Steinsberger, Yoshiki K. Tanaka, Isao Tanihata, Peter Thierolf, Walter Tinganelli, Bernd Voss, Uli Weber, Helmut Weick, John S. Winfield, Martin Winkler, Jianwei Zhao, Christoph Scheidenberger, Katia Parodi, Marco Durante, and the Super-FRS Experiment Collaboration.
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- 438 “Accessing tens-to-hundreds femtoseconds nuclear state lifetimes with low-energy binary heavy-ion reactions”
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- 439 “The structure of low-lying 1^- states in $^{90,94}\text{Zr}$ from $(\alpha, \alpha'\gamma)$ and $(p, p'\gamma)$ reactions”
F.C.L. Crespi, A. Bracco, E.G. Lanza, A. Tamii, N. Blasi, F. Camera, O. Wieland, N. Aoi, D.L. Balabanski, S. Bassauer, A.S. Brown, M.P. Carpenter, J.J. Carroll, M. Ciemała, A. Czeszumska, P.J. Davies, V. Derya, L.M. Donaldson, Y.D. Fang, H. Fujita, G. Gey, H.T. Ha, M.N. Harakeh, T. Hashimoto, N. Ichige, E. Ideguchi, A. Inoue, J. Isaak, C. Iwamoto, D.G. Jenkins, T. Klaus, N. Kobayashi, T. Koike, M. Krzysiek, M.K. Raju, M. Liu, A. Maj, L. Morris, P. von Neumann Cosel, S. Noji, H.J. Ong, S.G. Pickstone, N. Pietralla, D. Savran, J.M. Schmitt, M. Spieker, G. Steinhilber, C. Sullivan, B. Wasilewska, M. Weinert, V. Werner, Y. Yamamoto, T. Yamamoto, R.G.T. Zegers, X. Zhou, S. Zhu, A. and Zilges
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- 440 “Investigation of the isoscalar response of ^{24}Mg to ^6Li scattering”
J.C. Zamora, C. Sullivan, R.G.T. Zegers, N. Aoi, L. Batail, D. Bazin, M. Carpenter, J.J. Carroll, Y.D. Fang, H. Fujita, U. Garg, G. Gey, C.J. Guess, M.N. Harakeh, T.H. Hoang, E. Hudson, N. Ichige, E. Ideguchi, A. Inoue, J. Isaak, C. Iwamoto, C. Kacir, N. Kobayashi, T. Koike, M. Kumar Raju, S. Lipschutz, M. Liu, P. von Neumann-Cosel, S. Noji, H.J. Ong, S. Péru, J. Pereira, J. Schmitt, A. Tamii, R. Titus, V. Werner, Y. Yamamoto, X. Zhou and S. Zhu
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- 441 “Coulomb and nuclear excitations of ^{70}Zn and ^{68}Ni at intermediate energy”
S. Calinescu, O. Sorlin, I. Matea, F. Carstoiu, D.D. Dao, F. Nowacki, G. de Angelis, R. Astabatyán, S. Bagchi, C. Borcea, R. Borcea, L. Càceres, M. Ciemala, E. Clément, Z. Dombrádi, S. Franchoo, A. Gottardo, S. Grévy, H. Guerin, M.N. Harakeh, I.M. Harca, O. Kamalou, M. Kmiecik, A. Krasznahorkay, M. Krzysiek, I. Kuti, A. Lepailleur, S. Lukyanov, A. Maj, V. Maslov, K. Mazurek, P. Morfouace, J. Mrazek, F. Negoita, M. Niikura, L. Olivier, Y. Penionzhkevich, L. Perrot, C. Petrone, Z. Podolyák, C. Rigollet, T. Roger, F. Rotaru, D. Sohler, M. Stanoiu, I. Stefan, L. Stuhl, J.C. Thomas, Z. Vajta, M. Vandebrouck and O. Wieland
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- 442 “Complete set of bound negative-parity states in the neutron-rich ^{18}N nucleus”
S. Ziliani, M. Ciemala, F.C.L. Crespi, S. Leoni, B. Fornal, T. Suzuki, T. Otsuka, A. Maj, P. Bednarczyk, G. Benzoni, A. Bracco, C. Boiano, S. Bottoni, S. Brambilla, M. Bast, M. Beckers, T. Braunroth, F. Camera, N. Cieplicka-Oryńczak, E. Clément, S. Coelli, O. Dorvaux, S. Erturk, G. De France, C. Fransen, A. Goldkuhle, J. Grębosz, M.N. Harakeh, Ł.W. Iskra, B. Jacquot, A. Karpov, M. Kicińska-Habior, Y.-H. Kim, M. Kmiecik, A. Lemasson, S.M. Lenzi, M. Lewitowicz, H. Li, I. Matea, K. Mazurek, C. Michelagnoli, M. Matejska-Minda, B. Million, C. Müller-Gatermann, V. Nanal, P. Napiorkowski, D.R. Napoli, R. Palit, M. Rejmund, Ch. Schmitt, M. Stanoiu, I. Stefan, E. Vardaci, B. Wasilewska, O. Wieland, M. Ziębliński, and M. Zielińska
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- 443 “Experimental study of 4n by directly detecting the decay neutrons”
S.W. Huang, Z.H. Yang, F.M. Marqués, N.L. Achouri, D.S. Ahn, T. Aumann, H. Baba, D. Beaumel, M. Böhmer, K. Boretzky, M. Caamaño, S. Chen, N. Chiga, M.L. Cortés, D. Cortina, P. Doornenbal, C.A. Douma, F. Dufter, T. Elidiano, J. Feng, B. Fernández-Domínguez, Z. Elekes, U. Forsberg, T. Fujino, N. Fukuda, I. Gašparić, Z. Ge, R. Gernhäuser, J.M. Gheller, J. Gibelin, A. Gillibert, B.M. Godoy, Z. Halász, T. Harada, M.N. Harakeh, A. Hirayama, N. Inabe, T. Isobe, J. Kahlbow, N. Kalantar-Nayestanaki, D. Kim, S. Kim, S. Kiyotake, M.A. Knösel, T. Kobayashi, Y. Kondo, P. Koseoglou, Y. Kubota, I. Kuti, C. Lehr, C. Lenain, P.J. Li, Y. Liu, Y. Maeda, S. Masuoka, M. Matsumoto, J. Mayer, H. Miki, M. Miwa, I. Murray, T. Nakamura, A. Obertelli, N. Orr, H. Otsu, V. Panin, S. Park, M. Parlog, S. Paschalis, M. Potlog, S. Reichert, A. Revel, D. Rossi, A. Saito, M. Sasano, H. Sato, H. Scheit, F. Schindler, T. Shimada, Y. Shimizu, S. Shimoura, H. Simon, I. Stefan, S. Storck, L. Stuhl, H. Suzuki, D. Symochko, H. Takeda, S. Takeuchi, J. Tanaka, Y. Togano, T. Tomai, H.T. Törnqvist, J. Tscheuschner, T. Uesaka, V. Wagner, K. Wimmer, H. Yamada, B. Yang, L. Yang, Y. Yasuda, K. Yoneda, L. Zanetti, and J. Zenihiro
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- 444 “Search for in-band transitions in the candidate superdeformed band in ^{28}Si ”
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- 445 “Crossing roads with Professor Akito Arima”
Muhsin N. Harakeh
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- 446 “ γ decay to the ground state from the excitations above the neutron threshold in the $^{208}\text{Pb}(p,p'\gamma)$ reaction at 85 MeV”
B. Wasilewska, M. Kmiecik, M. Ciemała, A. Maj, F.C.L. Crespi, A. Bracco, M.N. Harakeh, P. Bednarczyk, S. Bottoni, S. Brambilla, F. Camera, I. Ciepał, N. Cieplicka-Oryńczak, M. Csatlos, B. Fornal, V. Gaudilla, J. Grębosz, J. Isaak, L.W. Iskra, M. Jeżabek, A.J. Krasznahorkay, S. Kihel, M. Krzysiek, P. Lasko, S. Leoni, M. Lewitowicz, J. Lukasik, M. Matejska-Minda, K. Mazurek, P.J. Napiorkowski, W. Parol, P. Pawłowski, L.Q. Qi, M. Saxena, Ch. Schmitt, Y. Sobolev, B. Sowicki, M. Stanoiu, A. Tamii, O. Wieland, and M. Ziębliński
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- 448 “Multiprobe study of excited states in ^{12}C : Disentangling the sources of monopole strength between the Hoyle state and $E_x = 13$ MeV”
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- 449 “Border of the island of inversion: Unbound states in ^{29}Ne ”
M. Holl, S. Lindberg, A. Heinz, Y. Kondo, T. Nakamura, J.A. Tostevin, H. Wang, T. Nilsson, N.L. Achouri, H. Al Falou, L. Atar, T. Aumann, H. Baba, K. Boretzky, C. Caesar, D. Calvet, H. Chae, N. Chiga, A. Corsi, H.L. Crawford, F. Delaunay, A. Delbart, Q. Deshayes, P. Díaz Fernández, Z. Dombrádi, C.A. Douma, Z. Elekes, P. Fallon, I. Gašparić, J.-M. Gheller, J. Gibelin, A. Gillibert, M.N. Harakeh, A. Hirayama, C.R. Hoffman, A. Horvat, Á. Horváth, J.W. Hwang, T. Isobe, J. Kahlbow, N. Kalantar-Nayestanaki, S. Kawase, S. Kim, K. Kisamori, T. Kobayashi, D. Körper, S. Koyama, I. Kuti, V. Lapoux, F.M. Marqués, S. Masuoka, J. Mayer, K. Miki, T. Murakami, M. Najafi, K. Nakano, N. Nakatsuka, A. Obertelli, F. de Oliveira Santos, N.A. Orr, H. Otsu, T. Ozaki, V. Panin, S. Paschalis, A. Revel, D. Rossi, A.T. Saito, T.Y. Saito, M. Sasano, H. Sato, Y. Satou, H. Scheit, F. Schindler, P. Schrock, M. Shikata, Y. Shimizu, H. Simon, D. Soehler, O. Sorlin, L. Stuhl, S. Takeuchi, M. Tanaka, M. Thoennessen, H. Törnqvist, Y. Togano, T. Tomai, J. Tscheuschner, J. Tsubota, T. Uesaka, Z. Yang, M. Yasuda, and K. Yoneda (SAMURAI21 collaboration)
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- 450 “First observation of the four-neutron resonance”
M. Duer, T. Aumann, R. Gernhäuser, V. Panin, S. Paschalis, D.M. Rossi, N.L. Achouri, D. Ahn, H. Baba, C.A. Bertulani, M. Böhmer, K. Boretzky, C. Caesar, N. Chiga, A. Corsi, D. Cortina-Gil, C.A. Douma, F. Dufter, Z. Elekes, J. Feng, B. Fernández-Domínguez, U. Forsberg, N. Fukuda, I. Gasparic, Z. Ge, J.M. Gheller, J. Gibelin, A. Gillibert, K.I. Hahn, Z. Halász, M.N. Harakeh, A. Hirayama, M. Holl, N. Inabe, T. Isobe, J. Kahlbow, N. Kalantar-Nayestanaki, D. Kim, S. Kim, T. Kobayashi, Y. Kondo, D. Körper, P. Koseoglou, Y. Kubota, I. Kuti, P.J. Li, C. Lehr, S. Lindberg, Y. Liu, F.M. Marqués, S. Masuoka, M. Matsumoto, J. Mayer, K. Miki, B. Monteagudo, T. Nakamura, T. Nilsson, A. Obertelli, N.A. Orr, H. Otsu, S.Y. Park, M. Parlog, P.M. Potlog, S. Reichert, A. Revel, A.T. Saito, M. Sasano, H. Scheit, F. Schindler, S. Shimoura, H. Simon, L. Stuhl, H. Suzuki, D. Symochko, H. Takeda, J. Tanaka, Y. Togano, T. Tomai, H.T. Törnqvist, J. Tscheuschner, T. Uesaka, V. Wagner, H. Yamada, B. Yang, L. Yang, Z.H. Yang, M. Yasuda, K. Yoneda, L. Zanetti, J. Zenihiro, and M.V. Zhukov
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- 451 “The decay of the 21.47-MeV stretched resonance in ^{13}C : a precise probe of the open nuclear quantum system description”
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- 453 “Observation of the X17 anomaly in the ${}^7\text{Li}(p, e^+e^-){}^8\text{Be}$ direct proton capture”
N.J. Sas, A.J. Krasznahorkay, M. Csatlós, J. Gulyás, B. Kertész, J. Molnár, I. Rajta, J. Timár, I. Vajda, A. Krasznahorkay, and M.N. Harakeh
arXiv preprint arXiv:2205.07744
- 454 “Silicon tracker array for RIB experiments at SAMURAI”
A.I. Stefanescu, V. Panin, L. Trachea, T. Motobayashi, H. Otsu, A. Saastamoinen, T. Uesaka, L. Stuhl, J. Tanaka, D. Tudor, I.C. Stefanescu, A.E. Spiridon, K. Yoneda, H. Baba, M. Kurokawa, Y. Togano, Z. Halasz, M. Sasano, S. Ota, Y. Kubota, D.S. Ahn, T. Kobayashi, Z. Elekes, N. Fukuda, H. Takeda, D. Kim, E. Takada, H. Suzuki, Y. Shimizu, H.N. Liu, Y.L. Sun, T. Isobe, J. Gibelin, P.J. Li, J. Zenihiro, F.M. Marqués, M.N. Harakeh, G.G. Kiss, A. Kurihara, M. Yasuda, T. Nakamura, S. Park, Z. Yang, T. Harada, M. Nishimura, H. Sato, I.S. Hahn, K.Y. Chae, J.M. Elson, L.G. Sobotka, and C.A. Bertulani
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- 455 “WASA-FRS experiments in FAIR Phase-0 at GSI”
Y.K. Tanaka, P. Achenbach, H. Alibrahim Alfaki, F. Amjad, M. Armstrong, K.-H. Behr, J. Benlliure, Z. Brencic, T. Dickel, V. Drozd, S. Dubey, H. Ekawa, S. Escrig, M. Feijoo-Fontán, H. Fujioka, Y. Gao, H. Geissel, F. Goldenbaum, A. Graña González, E. Haettner, M.N. Harakeh, Y. He, H. Heggen, C. Hornung, N. Hubbard, K. Itahashi, M. Iwasaki, N. Kalantar-Nayestanaki, A. Kasagi, M. Kavatsyuk, E. Kazantseva, A. Khreptak, B. Kindler, R. Knoebel, H. Kollmus, D. Kostyleva, S. Kraft-Bermuth, N. Kurz, E. Liu, B. Lommel, V. Metag, S. Minami, D.J. Morrissey, P. Moskal, I. Mukha, A. Muneem, M. Nakagawa, K. Nakazawa, C. Nociforo, H.J. Ong, S. Pietri, J. Pochodzalla, S. Purushothaman, C. Rappold, E. Rocco, J.L. Rodríguez-Sánchez, P. Roy, R. Ruber, T.R. Saito, S. Schadmand, C. Scheidenberger, P. Schwarz, R. Sekiya, V. Serdyuk, M. Skurzok, B. Streicher, K. Suzuki, B. Szczepanczyk, X. Tang, N. Tortorelli, M. Vencelj, H. Wang, T. Weber, H. Weick, M. Will, K. Wimmer, A. Yamamoto, A. Yanai, J. Yoshida, and J. Zhao
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- 457 “Matter radius of the doubly-magic ^{56}Ni measured in a storage ring”
M. von Schmid, T. Aumann, S. Bagchi, S. Bönig, M. Csatlós, I. Dillmann, C. Dimopoulou, P. Egelhof, V. Eremin, T. Furuno, H. Geissel, R. Gernhäuser, M.N. Harakeh, A-L. Hartig, S. Ilieva, N. Kalantar-Nayestanaki, O. Kiselev, H. Kollmus, C. Kozhuharov, A. Krasznahorkay, Th. Kröll, M. Kuilman, S. Litvinov, Yu.A. Litvinov, M. Mahjour-Shafiei, M. Mutterer, D. Nagae, M.A. Najafi, C. Nociforo, F. Nolden, U. Popp, C. Rigollet, R. Roth, S. Roy, C. Scheidenberger, M. Steck, B. Streicher, L. Stuhl, M. Thürauf, T. Uesaka, H. Weick, J.S. Winfield, D. Winters, P.J. Woods, T. Yamaguchi, K. Yue, J.C. Zamora Cardona, and J. Zenihiro for the EXL Collaboration.
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- 458 “Mass tagging: Verification and calibration of particle identification by high-resolution mass measurements”
Christine Hornung, Timo Dickel, Daler Amanbayev, Samuel Ayet San Andrés, Dimiter L. Balabanski, Sönke Beck, Julian Bergmann, Paul Constantin, Jens Ebert, Hans Geissel, Florian Greiner, Lizzy Gröf, Emma Haettner, Muhsin N. Harakeh, Jan-Paul Hucka, Nasser Kalantar-Nayestanaki, Daria A. Kostyleva, Gabriella Kripko-Koncz, Ivan Miskun, Ali Mollaebrahimi, Ivan Mukha, Gottfried Münzenberg, Stephane Pietri, Wolfgang R. Plaß, Sivaji Purushothaman, Moritz Pascal Reiter, Ann-Kathrin Rink, Heidi Roesch, Christoph Scheidenberger, Anamaria Spătaru, Yoshiki K. Tanaka, Helmut Weick, and Jianwei Zhao
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- 460 “Intruder configurations in ^{29}Ne at the transition into the island of inversion: Detailed structure study of ^{28}Ne ”
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- 462 “Accurate simultaneous lead stopping power and charge-state measurements in gases and solids: Benchmark data for basic atomic theory and nuclear applications”
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- 463 “Nuclear-structure experiments at iThemba LABS to investigate discrepancies between (p,p') and (γ ,xn) data”
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- 465 “Excitation of the isoscalar giant monopole resonance and incompressibility of nuclear matter: resolution of a long-standing puzzle”
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- 466 “Study of light hypernuclei in Europe: the hypertriton and $nn\Lambda$ puzzles”
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J.W. Zhao, D. Amanbayev, T. Dickel, I. Miskun, W.R. Plaß, N. Tortorelli,
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- 470 “Study of Gamow-Teller giant resonance in ^{11}Li drip-line nucleus”
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- 472 “A compact start time counter using plastic scintillators readout with MPPC arrays for the WASA-FRS HypHI experiment”
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- 473 “Effect of ground-state shape deformation on Isoscalar Giant Monopole Resonance and the first observation of overtones of the Isoscalar Giant Quadrupole Resonance in rare-earth Nd isotopes”
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- 475 “Optical model potentials for deuteron scattering off ^{24}Mg , ^{28}Si , ^{58}Ni , ^{90}Zr , ^{116}Sn , and ^{208}Pb at ~ 100 MeV/nucleon”
D. Patel, D.C. Cuong, K.B. Howard, U. Garg, Dao T. Khoa, H. Akimune, G.P.A. Berg, M. Fujiwara, M.N. Harakeh, M. Itoh, C. Iwamoto, T. Kawabata, K. Kawase, J.T. Matta, T. Murakami, and M. Yosoi
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M. Abdullah, D. Das, S. Bagchi, and M.N. Harakeh
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- 006 “Fission decay of the isoscalar giant resonances in the actinide region”
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- 161 “Neutron-skin thickness of ^{208}Pb from the study of the anti-analog giant dipole resonance”
A. Krasznahorkay, M. Csatlós, L. Csige, F. Giacoppo, A. Görgen, T.W. Hagen, M.N. Harakeh, R. Julin, P. Koehler, N. Paar, S. Siem, L. Stuhl, T. Tornyai, and D. Vretenar
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- 162 “Horizon 2020: Opportunities and Perspectives”, ‘Editorial’
M.N. Harakeh
Nuclear Physics News 23:4 (2013) 3-4
- 163 “Study of isoscalar giant resonances in exotic nuclei by means of inverse reactions”
M.N. Harakeh
Proceedings of the First International African Symposium on Exotic Nuclei (IASEN-2013), iThemba lab, Cape Town, South Africa, 2-6 December (2013)
(World Scientific Pub. Co., Singapore, 2015) 387-396
- 164 “NuPECC: 25 years of achievements inspiring the future”
Juha Äystö, Angela Bracco, Brian Fulton, Sydney Galès, Muhsin Harakeh, Günther Rosner and Gabriele-Elisabeth (Sissy) Körner
Nuclear Physics News 24:3 (2014) 3-17
- 165 “Study of the isospin character of 1^- states using hadronic probes at intermediate energies”
V. Derya, J. Endres, M.N. Harakeh, D. Savran, M. Spieker, H.J. Wörtche, and A. Zilges
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- 166 “Unique spectrometer experiments with the Super-FRS at FAIR”
J. Äystö, K.-H. Behr, J. Benlliure, A. Bracco, P. Egelhof, A. Fomichev, S. Galès, H. Geissel, L.V. Grigorenko, M.N. Harakeh, R. Hayano, S. Heinz, K. Itahashi, A. Jokinen, N. Kalantar, R. Kanungo, A.V. Khanzadeev, H. Lenske, I. Mukha, C. Nociforo, H.J. Ong, M. Pfuetzner, S. Pietri, Y. Pivovarov, W. Plass, A. Prochazka, S. Purushothaman, T. Saito, C. Scheidenberger, H. Simon, I. Tanihata, H. Toki, H. Weick, J.S. Winfield, M. Winkler, V. Zamfir and the Super-FRS Collaboration
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- 167 “Measurement of the isoscalar monopole response in the neutron-rich nucleus ^{68}Ni using the active target MAYA”
M. Vandebrouck, J. Gibelin, E. Khan, N.L. Achouri, H. Baba, D. Beaumel, Y. Blumenfeld, M. Caamaño, L. Càceres, G. Colò, F. Delaunay, B. Fernandez-Dominguez, U. Garg, G.F. Grinyer, M.N. Harakeh, N. Kalantar-Nayestanaki, N. Keeley, W. Mittig, J. Pancin, R. Raabe, T. Roger, P. Roussel-Chomaz, H. Savajols, O. Sorlin, C. Stodel, D. Suzuki, and J.C. Thomas
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Jap. Phys. Soc. Conf. Proc. 6 (2014) 020016
- 168 “First nuclear reaction experiment with stored radioactive ^{56}Ni beam and internal hydrogen and helium targets”
P. Egelhof, S. Bagchi, S. Bönig, M. Csatlós, I. Dillmann, C. Dimopoulou, V. Eremin, T. Furuno, H. Geissel, R. Gernhäuser, M.N. Harakeh, A.-L. Hartig, S. Ilieva, N. Kalantar-Nayestanaki, O. Kiselev, H. Kollmus, C. Kozhuharov, A. Krasznahorkay, T. Kröll, M. Kuilman, S. Litvinov, Yu.A. Litvinov, M. Mahjour-Shafiei, M. Mutterer, D. Nagae, M.A. Najafi, C. Nociforo, F. Nolden, U. Popp, C. Rigollet, S. Roy, C. Scheidenberger, M. von Schmid, M. Steck, B. Streicher, L. Stuhl, M. Thürauf, T. Uesaka, H. Weick, J.S. Winfield, D. Winters, P.J. Woods, T. Yamaguchi, K. Yue, J.C. Zamora, and J. Zenihiro for the EXL Collaboration
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Jap. Phys. Soc. Conf. Proc. 1 (2015) 020049
- 169 “ η' mesic nucleus spectroscopy with (p,d) reaction at GSI”
Yoshiki K. Tanaka, Yassid Ayyad, Jose Benlliure, Kai-Thomas Brinkmann, Stefan Friedrich, Hiroyuki Fujioka, Hans Geissel, Jnaneswari Gellanki, Chenlei Guo, Eric Gutz, Emma Haettner, Muhsin N. Harakeh, Ryugo S. Hayano, Yuko Higashi, Satoru Hirenzaki, Christine Hornung, Yoichi Igarashi, Natsumi Ikeno, Kenta Itahashi, Masahiko Iwasaki, Daisuke Jido, Nasser Kalantar-Nayestanaki, Rituparna Kanungo, Ronja Knoebel, Nikolaus Kurz, Volker Metag, Ivan Mukha, Tomofumi Nagae, Hideko Nagahiro, Mariana Novoa, Takahiro Nishi, Hooi Jin Ong, Stephane Pietri, Andrej Prochazka, Christophe Rappold, Moritz P. Reiter, Jose Luis Rodríguez Sánchez, Christoph Scheidenberger, Haik Simon, Branislav Sitar, Peter Strmen, Baohua Sun, Ken Suzuki, Imrich Szarka, Maya Takechi, Isao Tanihata, Satoru Terashima, Yuni N. Watanabe, Helmut Weick, Eberhard Widmann, John S. Winfield, Xiaodong Xu, Hiroki Yamakami, and Jianwei Zhao
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- 170 “Search for $\eta'(958)$ -nucleus bound states by (p,d) reaction at GSI and FAIR”
H. Fujioka, Y. Ayyad, J. Benlliure, K.-T. Brinkmann, S. Friedrich, H. Geissel, J. Gellanki, C. Guo, E. Gutz, E. Haettner, M.N. Harakeh, R.S. Hayano, Y. Higashi, S. Hirenzaki, C. Hornung, Y. Igarashi, N. Ikeno, K. Itahashi, M. Iwasaki, D. Jido, N. Kalantar-Nayestanaki, R. Kanungo, R. Knoebel, N. Kurz, V. Metag, I. Mukha, T. Nagae, H. Nagahiro, M. Novina, T. Nishi, H.J. Ong, S. Pietri, A. Prochazka, C. Rappold, M.P. Reiter, J.L. Rodríguez-Sánchez, C. Scheidenberger, H. Simon, B. Sitar, P. Strmen, B. Sun, K. Suzuki, I. Szarka, M. Takechi, Y.K. Tanaka, I. Tanihata, S. Terashima, Y.N. Watanabe, H. Weick, E. Widmann, J.S. Winfield, X. Xu, H. Yamakami, and J. Zhao, for the Super-FRS Collaboration
Proceedings of the II Symposium on applied nuclear physics and innovative technologies, Jagiellonian University, Kraków, Poland, 24-27 September (2014)
- 171 “Investigation of the nuclear matter distribution of ^{56}Ni by elastic proton scattering in inverse kinematics”
M. von Schmid, S. Bagchi, S. Bönig, M. Csatlós, I. Dillmann, C. Dimopoulou, P. Egelhof, V. Eremin, T. Furuno, H. Geissel, R. Gernhäuser, M.N. Harakeh, A.-L. Hartig, S. Ilieva, N. Kalantar-Nayestanaki, O. Kiselev, H. Kollmus, C. Kozhuharov, A. Krasznahorkay, T. Kröll, M. Kuilman, S. Litvinov, Yu.A. Litvinov, M. Mahjour-Shafiei, M. Mutterer, D. Nagae, M.A. Najafi, C. Nociforo, F. Nolden, U. Popp, C. Rigollet, S. Roy, C. Scheidenberger, M. Steck, B. Streicher, L. Stuhl, M. Thürauf, T. Uesaka, H. Weick, J.S. Winfield, D. Winters, P.J. Woods, T. Yamaguchi, K. Yue, J.C. Zamora, and J. Zenihiro for the EXL Collaboration
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- 172 “Isoscalar giant resonance studies in a stored-beam experiment within EXL”
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ARTICLES in books, proceedings and internal reports

- 173 “Properties of light nuclei by inelastic scattering and nucleon transfer in $^3\text{He}+^9\text{Be}$ reactions at low energies”
A.S. Denikin, S.M. Lukyanov, Yu.E. Penionzhkevich, N.K. Skobelev, Yu.G. Sobolev, E.I. Voskoboynik, W.H. Trzaska, G.P. Tyurin, J. Mrazek, V. Kroha, V. Burjan, Š. Piskoř, V. Glagolev, S.V. Khlebnikov, M.N. Harakeh, and K.A. Kuterbekov
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- 174 “Experiments at the frontiers of nuclear physics: The experimental program of the Super-FRS Collaboration”
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- 175 “ENSAR, a Nuclear Science Project for European Research Area”, ‘Editorial’
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- 176 “Properties of light nuclei by inelastic scattering and nucleon transfer in $^3\text{He}+^9\text{Be}$ reactions at low energies”
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- 177 “Experimental program of the Super-FRS Collaboration at FAIR and developments of related instrumentation”
J. Äystö, K.-H. Behr, J. Benlliure, A. Bracco, P. Egelhof, A. Fomichev, S. Galès, H. Geissel, T. Grahn, L.V. Grigorenko, M.N. Harakeh, R. Hayano, S. Heinz, K. Itahashi, A. Jokinen, N. Kalantar-Nayestanaki, R. Kanungo, H. Lenske, I. Mukha, G. Münzenberg, C. Nociforo, H.J. Ong, S. Pietri, M. Pfützner, W. Plaß, A. Prochazka, S. Purushothaman, T. Saito, C. Scheidenberger, H. Simon, I. Tanihata, S. Terashima, H. Toki, L. Trache, H. Weick, J.S. Winfield, M. Winkler, V. Zamfir, for the Super-FRS Collaboration of NUSTAR@FAIR
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- 178 “Spectroscopy of η' nucleus bound states at GSI and FAIR - very preliminary results and future prospects”
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- 179 “Nuclear reactions in the storage ring ESR with EXL”
Th. Kröll, M. von Schmid, J.C. Zamora, S. Bagchi, S. Bönig, M. Csatlós, I. Dillmann, C. Dimopoulou, P. Egelhof, V. Eremin, T. Furuno, H. Geissel, R. Gernhäuser, M.N. Harakeh, A.L. Hartig, S. Ilieva, N. Kalantar-Nayestanaki, O. Kiselev, H. Kollmus, C. Kozhuharov, A. Krasznahorkay, M. Kuilman, S. Litvinov, Yu.A. Litvinov, M. Mahjour-Shafiei, M. Mutterer, D. Nagae, M.A. Najafi, C. Nociforo, F. Nolden, U. Popp, C. Rigollet, S. Roy, C. Scheidenberger, M. Steck, B. Streicher, L. Stuhl, M. Thürauf, T. Uesaka, H. Weick, J.S. Winfield, D. Winters, P.J. Woods, T. Yamaguchi, K. Yue, J. Zenihiro for the EXL collaboration
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- 180 “Search for η' mesic nuclei by missing-mass spectroscopy of the $^{12}\text{C}(p,d)$ reaction”
Yoshiki K. Tanaka, Yassid Ayyad, Jose Benlliure, Kai-Thomas Brinkmann, Stefan Friedrich, Hiroyuki Fujioka, Hans Geissel, Jnaneswari Gellanki, Chenlei Guo, Eric Gutz, Emma Haettner, Muhsin N. Harakeh, Ryugo S. Hayano, Yuko Higashi, Satoru Hirenzaki, Christine Hornung, Yoichi Igarashi, Natsumi Ikeno, Kenta Itahashi, Masahiko Iwasaki, Daisuke Jido, Nasser Kalantar-Nayestanaki, Rituparna Kanungo, Ronja Knoebel, Nikolaus Kurz, Volker Metag, Ivan Mukha, Tomofumi Nagae, Hideko Nagahiro, Mariana Nanova, Takahiro Nishi, Hooi Jin Ong, Stephane Pietri, Andrej Prochazka, Christophe Rappold, Moritz P. Reiter, Jose Luis Rodríguez Sánchez, Christoph Scheidenberger, Haik Simon, Branislav Sitar, Peter Strmen, Baohua Sun, Ken Suzuki, Imrich Szarka, Maya Takechi, Isao Tanihata, Satoru Terashima, Yuni N. Watanabe, Helmut Weick, Eberhard Widmann, John S. Winfield, Xiaodong Xu, Hiroki Yamakami, and Jianwei Zhao for the η -PRiME/Super-FRS Collaboration
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- 181 “The highest French civil award for Sydney Galès”,
F. Azaiez and M.N. Harakeh
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- 182 “Excitation spectra of carbon nuclei near η' emission threshold”
Kenta Itahashi, Yassid Ayyad, Jose Benlliure, Kai-Thomas Brinkmann, Stefan Friedrich, Hiroyuki Fujioka, Hans Geissel, Jnaneswari Gellanki, Chenlei Guo, Eric Gutz, Emma Haettner, Muhsin N. Harakeh, Ryugo S. Hayano, Yuko Higashi, Satoru Hirenzaki, Christine Hornung, Yoichi Igarashi, Natsumi Ikeno, Masahiko Iwasaki, Daisuke Jido, Nasser Kalantar-Nayestanaki, Rituparna Kanungo, Ronja Knoebel, Nikolaus Kurz, Volker Metag, Ivan Mukha, Tomofumi Nagae, Hideko Nagahiro, Mariana Nanova, Takahiro Nishi, Hooi Jin Ong, Stephane Pietri, Andrej Prochazka, Christophe Rappold, Moritz P. Reiter, Jose Luis Rodríguez Sánchez, Christoph Scheidenberger, Haik Simon, Branislav Sitar, Peter Strmen, Baohua Sun, Ken Suzuki, Imrich Szarka, Maya Takechi, Yoshiki K. Tanaka, Isao Tanihata, Satoru Terashima, Yuni N. Watanabe, Helmut Weick, Eberhard Widmann, John S. Winfield, Xiaodong Xu, Hiroki Yamakami, and Jianwei Zhao
Proceedings of the 14th International Conference on Meson-Nucleon Physics and the Structure of the Nucleon (MENU 2016), Kyoto, Japan, 25-30 July (2016); Jap. Phys. Soc. Conf. Proc. 13 (2017) 020030
- 183 “White Book on the Complementary Scientific Programme at IFMIF-DONES”
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Institute of Nuclear Physics Polish Academy of Sciences Report No 2094/PL (2016) 1-93

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- 184 “Refuting the nature of the sixth 0^+ Hoyle-analogue state candidate in ^{16}O ”
K.C.W. Li, P. Adsley, R. Neveling, P. Papka, F.D. Smit, J.W. Brümmer, C.Aa. Diget, M. Freer, M.N. Harakeh, Tz. Kokalova, F. Nemulodi, L. Pellegrini, B. Rebeiro, J.A. Swartz, S. Triambak, J.J. Van Zyl, and C. Wheldon
Proceedings of the 26th Int. Nuclear Physics Conference (INPC 2016), Adelaide, Australia, 11-16 September (2016)
Proc. Sci. 281 (2017) 040, p.1-8
- 185 “In Memoriam: Adriaan van der Woude (1930–2017)”
S. Brandenburg, M.N. Harakeh, and R.H. Siemssen
Nuclear Physics News 27:4 (2017) 40
- 186 “Nasser Kalantar-Nayestanaki appointed Knight of the order of the Netherlands Lion”
M.N. harakeh
Nuclear Physics News 29:2 (2019) 36
- 187 “Spectroscopy of η' -mesic nuclei with WASA at GSI/FAIR”
Y.K. Tanaka, Y. Ayyad, S. Bagchi, J. Benlliure, T. Dickel, V. Drozd, H. Ekawa, H. Fujioka, H. Geissel, F. Goldenbaum, C. Guo, E. Haettner, M.N. Harakeh, R.S. Hayano, Y. He, S. Hirenzaki, C. Hornung, Y. Igarashi, N. Ikeno, K. Itahashi, M. Iwasaki, D. Jido, N. Kalantar-Nayestanaki, R. Kanungo, B. Kindler, R. Knöbel, D. Kostyleva, N. Kurz, N. Kuzminchuk, E. Liu, B. Lommel, Y. Ma, S.Y. Matsumoto, V. Metag, S. Minami, P. Moskal, I. Mukha, A. Muneem, T. Nagae, H. Nagahiro, M. Nakagawa, H.J. Ong, H. Outa, S. Pietri, W.R. Plass, A. Prochazka, S. Purushothaman, X. Qiu, C. Rappold, M.P. Reiter, J. Ritman, J.L. Rodríguez-Sánchez, R. Ruber, O. Rundel, T.R. Saito, C. Scheidenberger, R. Sekiya, V. Serdyuk, H. Simon, B. Sitar, M. Skurzok, P. Strmen, B. Sun, B. Sun, I. Szarka, M. Takechi, I. Tanihata, S. Terashima, H. Weick, X. Xu, A. Yamamoto, and J. Zhao (η -PRiME/Super-FRS Collaboration)
Proceedings of 3rd Jagiellonian Symposium on Fundamental and Applied Subatomic Physics, Kraków, Poland, 23-28 June (2019)
Acta Phys. Pol. B51 (2020) 39-44
- 188 “Why Do We Strive to Have EU Integrating Activities for Nuclear Science Facilities?”
A. Bracco and M.N. Harakeh
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- 189 “In Memoriam: Rolf H. Siemssen (1933–2021)”
A. van den Berg, S. Gales, M.N. Harakeh
Nuclear Physics News 31:2 (2021) 1-2
- 190 “Support for Lebanese Scientists: Computing Facility for Multidisciplinary Research Activities”
M.N. Harakeh
Nuclear Physics News 31:2 (2021) 36

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ARTICLES in books, proceedings and internal reports

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SEMINARS AND INVITED TALKS

M.N. Harakeh

- 001 “Dipole Excitations in light Nuclei”
Seminar, S.U.N.Y. at Stony Brook, Stony Brook, N.Y., U.S.A. (October, 1974)
- 002 “Dipole Excitations in light Nuclei”
Seminar, Argonne National Lab, Argonne, Illinois, U.S.A. (October, 1974)
- 003 “Dipole Excitations in light Nuclei”
Seminar, KVI, Groningen, The Netherlands (February 18, 1975)
- 004 “Giant quadrupole (isoscalar) excitations observed by inelastic alpha scattering from ^{16}O ”
Invited Talk at the International Winter Meeting on Nuclear Physics
Bormio, Italy (January, 1976)
- 005 “Excitation of negative parity states in ^{16}O by inelastic alpha scattering”
Seminar, KVI, Groningen, The Netherlands (April 20, 1976)
- 006 “Giant resonances in ^{16}O ”
Seminar, MPI, Heidelberg, W. Germany (June 17, 1976)
- 007 “Experimental survey of giant resonances”
Invited Talk at the Miniconference on Giant Resonances
KVI, Groningen, The Netherlands (December 16, 1977)
- 008 “Isovector dipole excitations in inelastic proton scattering”
Seminar, NBI, Copenhagen, Denmark (1978)
- 009 “Recent experimental results on giant resonance decay in sd-shell nuclei”
Seminar, Pittsburgh University, Pittsburgh, Pennsylvania, U.S.A. (October 29, 1979)
- 010 “Some aspects of giant resonance decay”
Seminar, Indiana University, Bloomington, Indiana, U.S.A. (November 6, 1979)
- 011 “The spectrograph focal plane detection system at the KVI: present and future”
Seminar, Kernforschungszentrum, Karlsruhe, W. Germany (January 16, 1980)
- 012 “Angular Correlations”
Seminar, KVI, Groningen, The Netherlands (February 5, 1980)
- 013 “Fission decay of the isoscalar giant resonances in the actinide region”
Invited Talk at the RCNP International Symposium on Highly Excited States in Nuclear
Reactions
Osaka, Japan (May 12 - 16, 1980)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 014 “Recent experimental results on decay of the giant resonances in the actinide region”
Seminar, Kyushu University, Fukuoka, Japan (May 19, 1980)
- 015 “Recent experimental results on decay of the giant resonances in the actinide region”
Seminar, Institute of Nuclear Studies, Tokyo, Japan (May 30, 1980)
- 016 “Recent experimental results on decay of the giant resonances in the actinide region”
Seminar, Tohoku University, Sendai, Japan (June 3, 1980)
- 017 “Recent experimental results on decay of the giant resonances in the sd-shell region”
Seminar, Osaka University, Osaka, Japan (May 23, 1980)
- 018 “Recent experimental results on decay of the giant resonances in the sd-shell region”
Seminar, University of Tokyo, Hongo Campus, Japan (May 26, 1980)
- 019 “Recent experimental results on decay of the giant resonances in the sd-shell region”
Seminar, Institute of Physical and Chemical Research, Saitama, Japan (May 27, 1980)
- 020 “Recent experimental results on decay of the giant resonances in the sd-shell region”
Seminar, University of Tokyo, College of General Education, Tokyo, Japan (May 28, 1980)
- 021 “Recent experimental results on decay of the giant resonances in the sd-shell region”
Seminar, Tokyo Institute of Technology, Tokyo, Japan (May 29, 1980)
- 022 “Recent experimental results on decay of the giant resonances in the sd-shell region”
Seminar, Cyclotron Lab., Tohoku University, Sendai, Japan (June 4, 1980)
- 023 “Fission decay of the isoscalar giant resonances in the actinide region”
Seminar, NBI, Copenhagen, Denmark (November 3, 1980)
- 024 “Fission decay of the isoscalar giant resonances in the actinide region”
Seminar, Istituto de Scienze Fisiche, Milan, Italy (December 5, 1980)
- 025 “Giant resonance decay studies at the KVI”
Seminar, NIKHEF-K, Amsterdam, The Netherlands (January 29, 1981)
- 026 “Fission induced by α - and proton scattering: barrier and GR region”
Seminar, KVI, Groningen, The Netherlands (April 7, 1981)
- 027 “Fission decay of giant resonances in the actinide region”
Seminar, University of Ghent, Ghent, Belgium (April 13, 1981)
- 028 “Giant resonances decay studies at the KVI”
Seminar, University of Bonn, Bonn, W. Germany (June 4, 1981)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 029 “Giant resonances decay studies at the KVI”
Seminar, Kernforschungsanlage, Jülich, W. Germany (June 5, 1981)
- 030 “Fission decay as a measure of statistical equilibration of coherent collective modes”
Invited Talk at the International Symposium on Nuclear Fission and Related Collective Phenomena and Properties of Heavy Nuclei
Bad Honnef, W. Germany (October 26 - 29, 1981)
- 031 “Fission decay as a measure of statistical equilibration of coherent collective modes”
General Colloquium, LAN, Groningen, The Netherlands (January 14, 1982)
- 032 “Fission decay as a measure of statistical equilibration of coherent collective modes”
Seminar, R.J. van de Graaff Laboratorium, University of Utrecht, Utrecht, The Netherlands (February 5, 1982)
- 033 “Excitation and decay of isospin and spin-isospin giant resonances in light nuclei”
Seminar, Oxford University, Oxford, Great Britain (May 11, 1982)
- 034 “Excitation and decay of isospin and spin-isospin giant resonances in light nuclei”
Seminar, Birmingham University, Birmingham, Great Britain (May 12, 1982)
- 035 “Excitation and decay of isospin and spin-isospin giant resonances in light nuclei”
Seminar, Daresbury Lab., Daresbury, Warrington, Great Britain (May 13, 1982)
- 036 “Excitation and decay of isospin and spin-isospin giant resonances in light nuclei”
Seminar, University of Bari, Bari, Italy (September 24, 1982)
- 037 “Excitation and decay of isospin and spin-isospin giant resonances in light nuclei”
Seminar, University of Milano, Milano, Italy (October 1, 1982)
- 038 “Fission decay of the isoscalar giant resonances in the actinide region”
Seminar, NPL, University of Washington, Seattle, Washington, U.S.A. (February 15, 1983)
- 039 “Excitation of low-lying collective bands in inelastic hadron scattering”
Invited Talk at the RCNP International Symposium on Light Ion Reaction Mechanism
Osaka, Japan (May 16 - 20, 1983)
- 040 “Form factors and coupled channel analysis of inelastic excitations of low-lying collective bands in rotational nuclei”
Invited Lectures at the RCNP-Kikuchi Summer School
Kyoto, Japan (May 23 - 27, 1983)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 041 “Charge exchange reactions and the excitation of isospin and spin-isospin giant resonance modes”
Seminar, NPL, University of Washington, Seattle, Washington, U.S.A. (July 12, 1983)
- 042 “A review of the fission decay of the giant resonances in the actinide region”
Invited Talk at the International Symposium on Highly Excited States and Nuclear Structure Orsay, France, (September 5 - 8, 1983)
- 043 “Excitation and decay of isospin and spin-isospin giant resonance modes in light nuclei”
Seminar, University of Michigan, Ann Arbor, Michigan, U.S.A. (October 4, 1983)
- 044 “Excitation and decay of isospin and spin-isospin giant resonance modes in light nuclei”
Seminar, Michigan State University, East Lansing, Michigan, U.S.A. (October 5, 1983)
- 045 “Excitation and decay of isospin and spin-isospin giant resonance modes in light nuclei”
Seminar, IUCF, Bloomington, Indiana, U.S.A. (October 7, 1983)
- 046 “Fission decay of the isoscalar giant resonances in the actinide region: an update”
Seminar, University of Illinois, Urbana, Illinois, U.S.A. (October 10, 1983)
- 047 “Fission decay of the isoscalar giant resonances in the actinide region: an update”
Seminar, ANL, Chicago, Illinois, U.S.A. (October 11, 1983)
- 048 “Angular correlation measurements”
Seminar, NPL, University of Washington, Seattle, Washington, U.S.A. (November 17, 1983)
- 049 “Role of isospin in the γ -decay of GDR built on excited states”
Seminar, KVI, Groningen, The Netherlands, (March 13, 1984)
- 050 “Studies of giant resonances: present and future prospects”
Seminar, Vrije Universiteit, Amsterdam, The Netherlands (May 14, 1984)
- 051 “Excitation and decay of giant resonances”
Seminar, Vrije Universiteit, Amsterdam, The Netherlands (February 11, 1985)
- 052 “Studies of giant resonances: recent developments”
Seminar, NIKHEF-K, Amsterdam, The Netherlands (April 11, 1985)
- 053 “Spreading width of IAS in heavy nuclei: experimental determination and mechanism”
Invited Talk at the 4th International Conference on Nuclear Reaction Mechanisms Varenna, Italy (June 10 - 15, 1985)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 054 “Excitation and decay of isoscalar and isovector (charge-exchange) giant resonances”
Invited Series of Three Lectures at the XVII Masurian International Summer School on Nuclear Physics
Mikołajki, Poland (September 2 - 14, 1985)
- 055 “Decay of the giant monopole resonance in heavy nuclei: statistical versus semi-direct decay”
Seminar, Jagiellonian University, Cracow, Poland (September 18, 1985)
- 056 **Organizer of Workshop** on Nuclear Structure and Future Research Prospects
Beekbergen, The Netherlands (February 12 - 14, 1987)
- 057 “Decay properties and systematics of the isoscalar giant monopole resonance from inelastic α -scattering measurements at 0° ”
Invited Contribution for plenary session presentation at the DPG-NNV Spring Meeting
Groningen, The Netherlands (March 23 - 27, 1987)
- 058 “Decay properties and systematics of the isoscalar giant monopole resonance from inelastic α -scattering measurements at 0° ”
Seminar, Laboratory of Nuclear Reactions, Joint Institute of Nuclear Research, Dubna, U.S.S.R.
(April 13, 1987)
- 059 “Giant resonances built on excited states: a means to probe an excited nucleus”
Seminar, R.J. van de Graaff Laboratorium, University of Utrecht, Utrecht, The Netherlands
(June 5, 1987)
- 060 “Nature of the neutron decay of the giant monopole resonance in medium to heavy nuclei”
Seminar, Physics Department, University of Notre Dame, Notre Dame, Indiana, U.S.A.
(January 12, 1988)
- 061 “Latest results on the decay of the giant monopole resonance”
Invited Talk at the 5th International Conference on Nuclear Reaction Mechanisms
Varenna, Italy (June 13 - 18, 1988)
- 062 “Study of giant resonance de-excitation by $(\alpha, \alpha'\gamma)$ and $(\alpha, \alpha'n)$ reactions” and
Invited Talk at the Fifth International Symposium on Nucleon Induced Reactions
Smolenice Castle, Czechoslovakia (June 20 - 25, 1988)
- 063 “Experimental summary talk”
Invited Talk at the Fifth International Symposium on Nucleon Induced Reactions
Smolenice Castle, Czechoslovakia (June 20 - 25, 1988)
- 064 “Neutron and gamma decay of giant resonances excited by inelastic α -scattering at 0° ”
Invited Talk at the 2^{ème} Foire aux Decroissances
IPN Orsay, France (July 4 - 5, 1988)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 065 “Gamma and neutron decay of giant resonances induced by inelastic α -scattering at 0° ”
Seminar, Beschleunigerlaboratorium, Ludwig-Maximilians-Universität München, Garching,
W. Germany (October 12, 1988)
- 066 “Excitation of electric dipole strength in inelastic α -scattering at (and near to) 0° ”
Seminar, IUCF, Bloomington, Indiana, U.S.A. (February 27, 1989)
- 067 “Neutron decay of the isoscalar giant monopole resonance excited via 0° inelastic α -scattering”
Seminar, Graduate student seminar, IUCF, Bloomington, Indiana, U.S.A. (March 1, 1989)
- 068 “Concluding remarks”
Concluding Talk at the International Conference on Selected Topics in Nuclear Structure
Dubna, U.S.S.R. (June 20 - 24, 1989)
- 069 “Excitation of electric dipole strength at (and around) 0° in inelastic α -scattering at $E_\alpha=120$
MeV”
Seminar, Physics department, University of Notre Dame, Notre Dame, Indiana, U.S.A.
(July 3, 1990)
- 070 “Shape transition in the Nd-isotopes investigated via electron scattering”
Invited Talk at the Sixth International Conference on Nuclear Reaction Mechanisms
Varenna, Italy (June 10 - 15, 1991)
- 071 “Excitation and decay of collective modes in charge-exchange reactions”
Invited Lectures at the XXII Mazurian Lake Summer School on Nuclear Physics
Piaski, Poland (August 26 - September 5, 1991)
- 072 “Mechanisms of high-energy γ -ray production in heavy-ion collisions”
Seminar, Nuclear Physics Institute, Rez (near Prague), Czechoslovakia (September 9, 1991)
- 073 “Isoscalar giant resonances: prospects for future research”
Invited Talk at the Notre Dame Workshop on Giant Resonances and Related Phenomena
Notre Dame, Indiana, U.S.A. (October 21 - 23, 1991)
- 074 “Excitation of dipole ($E1, M1$) and mixed-symmetry states with hadronic probes: mechanism and
structure”
Invited Talk at the Workshop on Dipole Excitations in Nuclei
Gent, Belgium (November 11 - 12, 1991)
- 075 “Collective motion in nuclei”
Lectures at the aio/oio Study Week in Zeist, The Netherlands (December 16 - 19, 1991)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 076 “Dipole excitations in inelastic α -scattering”
Seminar, RIKEN, Tokyo, Japan (November 6, 1992)
- 077 “Fermi and Gamow-Teller excitations; collectivity and microscopic structure”
Invited Lectures at the RCNP-Kikuchi School on Spin Physics at Intermediate energies
Osaka, Japan (November 16 - 19, 1992)
- 078 “GDR Excitation in α -scattering as a means to probe neutron-skin thickness in nuclei”
Invited Talk at Peter Paul’s Symposium
Stony Brook, New York, U.S.A. (March 6, 1993)
- 079 “Giant resonances: a means to probe nuclei and nuclear matter”
Invited Talk at the NNV Spring Meeting
Utrecht, The Netherlands (April 6, 1993)
- 080 “GDR excitation in α -scattering as a means to probe neutron-skin thickness in nuclei”
Seminar, The Svedberg Laboratory, Uppsala, Sweden (May 7, 1993)
- 081 “GDR excitation in α -scattering as a means to probe neutron-skin thickness in nuclei”
Seminar, RCNP, Osaka, Japan (June 10, 1993)
- 082 “GDR excitation in α -scattering as a means to probe neutron-skin thickness in nuclei”
Seminar, Physics Department, University of Tokyo, Tokyo, Japan (June 21, 1993)
- 083 “GDR excitation in α -scattering as a means to probe neutron-skin thickness in nuclei”
Seminar, Physics Department, Kyushu University, Fukuoka, Japan (July 2, 1993)
- 084 “GDR excitation in α -scattering as a means to probe neutron-skin thickness in nuclei”
Seminar, RIKEN, Tokyo, Japan (July 12, 1993)
- 085 “GDR excitation in α -scattering as a means to probe neutron-skin thickness in nuclei”
Seminar, INS, Tokyo, Japan (July 16, 1993)
- 086 “Giant resonances: Fundamental modes of excitation of the nucleus”
Seminar, Division of Natural science, International Christian University, Tokyo, Japan
(June 14, 1993)
- 087 “Giant resonances: Fundamental modes of excitation of the nucleus”
Seminar, Physics Department, University of Tokyo, Tokyo, Japan (July 9, 1993)
- 088 **Director of NATO Advanced Study Institute/Chairman of Organizing Committee** of the
International Summer School on “Perspectives in the Structure of Hadronic Systems”
Dronten, The Netherlands (August 1 - 14, 1993)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 089 “Charge-exchange modes: collectivity and microscopic structure”
Seminar, Institute of Nuclear Research, Hungarian Academy of Sciences, Debrecen, Hungary
(September 30, 1993)
- 090 “The ($^3\text{He},tp$) reaction: a means to study the microscopic structure of spin-isospin modes”
Invited Talk at the International Symposium on Spin-Isospin responses and Weak Processes in
Hadrons and Nuclei
Osaka, Japan (March 8 - 10, 1994)
- 091 “Giant resonances: Fundamental modes of excitation of the nucleus”
Seminar, INFN, Laboratori Nazionale del Sud, Catania, Italy (June 22, 1994)
- 092 “GDR built on highly excited states”
Seminar, INFN, Laboratori Nazionale del Sud, Catania, Italy (June 23, 1994)
- 093 “Neutron decay of GMR excited via 0° inelastic α -scattering”
Seminar, INFN, Laboratori Nazionale del Sud, Catania, Italy (June 24, 1994)
- 094 “GDR excitation in α -scattering as a means to probe neutron-skin thickness in nuclei”
Seminar, INFN, Laboratori Nazionale del Sud, Catania, Italy (June 24, 1994)
- 095 “Microscopic structure of the Gamow-Teller resonance in ^{208}Bi ”
Invited Talk at the International Conference on Selected Topics in Nuclear Structure
Dubna, Russia (July 5 - 9, 1994)
- 096 “Experimental study of the microscopic structure of spin-isospin resonances from proton-decay
measurements”
Invited Talk at the Tours Symposium on Nuclear Physics II
Tours, France (August 31 -September 2, 1994)
- 097 “Experimental study of the microscopic structure of spin-isospin modes”
Invited Talk at the International Workshop on Physics with Recoil Separators & Detector Arrays
New Delhi, India (January 30 - February 2, 1995)
- 098 “GDR excitation in α -scattering as a means to probe neutron-skin thickness in nuclei”
Seminar, Department of physics, Punjab University, Chandigarh, India (February 6, 1995)
- 099 “GDR excitation in α -scattering as a means to probe neutron-skin thickness in nuclei”
Seminar, GANIL, Caen, France (March 6, 1995)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 100 “AGOR facility: a versatile tool for studies with light and heavy ions in the low and intermediate energy regimes”
Invited Talk at the DPG/NNV Meeting
Köln, Germany (March 13-17, 1995)
- 101 *Chairman of Organizing Committee* of the Groningen Conference on Giant Resonances
Groningen, The Netherlands (June 28 - July 1, 1995)
- 102 “Excitation and decay of giant resonances”
Seminar, Department of Physics, Osaka University (Toyonaka), Osaka, Japan
(October 9, 1995)
- 103 “Particle and γ -decay of charge-exchange giant resonances: probing the spin-isospin microscopic structure”
Invited talk at the XIV RCNP International Symposium on Nuclear Reaction Dynamics of Nucleon-Hadron Many-body System
RCNP, Osaka, Japan (December 6-9, 1995)
- 104 *Director of NATO Advanced Study Institute/Chairman of Organizing Committee* of International Summer School on Correlations and Clustering Phenomena in Subatomic Physics
Dronten, The Netherlands (August 5-16, 1996)
- 105 “Particle and γ -decay of spin-isospin modes”
Invited talk at the Workshop on Giant Resonances
ECT*, Trento, Italy (December 9-20, 1996)
- 106 “The AGOR facility: A versatile tool for Nuclear Physics research in the low and intermediate energy regions”
Invited presentation at the International Collaboration Network Meeting
RCNP, Osaka, Japan (March 14, 1997)
- 107 “GDR excitation by isoscalar probes: a means to determine neutron-skin thickness”
Invited talk at the International Symposium on Exotic Nuclear Shapes
Debrecen, Hungary (May 12-17, 1997)
- 108 Member of the Organizing Committee of the KVI International Conference on Few Body Problems in Physics (FBIV)
Groningen, The Netherlands (July 22-26, 1997)
- 109 “Excitation and microscopic structure of spin-isospin modes in nuclei”
Seminar, Cyclotron Institute, Texas A&M, College Station, Texas, U.S.A. (August 15, 1997)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 110 “What can we learn from particle- and gamma-decay of charge-exchange giant resonances?”
Invited talk at the International Symposium on New Facets of Spin Giant Resonances in Nuclei
Tokyo, Japan (November 17-20, 1997)
- 111 Member of the Organizing Committee of the DPG/NNV/BNV/SBP Nuclear Physics Spring
Meeting
Seminar, Bochum, Germany (March 16-20, 1998)
- 112 “AGOR: A versatile facility for Nuclear Physics research at low and intermediate energies”
Seminar, Institut de Physique Nucléaire, Louvain-la-Neuve, Belgium (May 14, 1998)
- 113 “Microscopic structure of charge-exchange spin-isospin modes through decay measurements”
Invited talk at the NATO Advanced Research Workshop on The Structure of Mesons, Baryons
and Nuclei
Seminar, Cracow, Poland (May 26-30, 1998)
- 114 “AGOR: A versatile facility for Nuclear Physics research at low and intermediate energies”
Seminar, NIKHEF, Amsterdam, The Netherlands (June 19, 1998)
- 115 “The AGOR facility: equipment and program”
Seminar, Russian Federal Nuclear Center - All-Russia Scientific Research Institute of
Experimental Physics (RFNC-VNIIEF), Sarov, Russia (September 17, 1998)
- 116 “Recent results from AGOR”
Seminar, FZ, COSY, Jülich, Germany (September 28, 1998)
- 117 “Recent results from AGOR”
Seminar, RIKEN, Tokyo, Japan (November 24, 1998)
- 118 “Search for the isovector monopole resonance in the ($^3\text{He},t$) reaction”
Invited talk at the RCNP International Mini Symposium on Nuclear Response and Medium
Effects (MEDIUM '98)
Osaka, Japan (November 26-28, 1998)
- 119 “AGOR: facility and first results”
Seminar, NSCL, MSU, East Lansing, Michigan, U.S.A. (January 28, 1999)
- 120 “Isospin and spin-isospin mode in nuclei”
Invited talk at the International Symposium on Nuclear Electro-Weak Spectroscopy (NEWS99)
for Symmetries and Electro-Weak Nuclear Processes
Osaka, Japan (March 9-12, 1999)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 121 “Saturation of the width of GDR at high temperature”
Invited talk at the RIKEN Symposium and Workshop on Selected Topics in Nuclear Collective Excitations
Saitama, Tokyo, Japan (March 20-24, 1999)
- 122 “Summary of the symposium”
Invited summary talk at the RIKEN Symposium and Workshop on Selected Topics in Nuclear Collective Excitations
Saitama, Tokyo, Japan (March 20-24, 1999)
- 123 “Microscopic structure of isospin and spin-isospin modes in charge-exchange reactions”
Invited talk at the International Conference on Experimental Nuclear Physics in Europe: Facing the Next Millennium
Sevilla, Spain (June 21-26, 1999)
- 124 “Summary of the symposium”
Invited summary talk at the International Symposium on Exotic Nuclear Structures (ENS2000)
Debrecen, Hungary (May 15-20, 2000)
- 125 “Isospin and spin-isospin modes in charge-exchange reactions: excitation and decay”
Seminar, Department of Physics and Astronomy, Basel, Switzerland (May 25, 2000)
- 126 “Excitation and decay of giant resonances – Achievements and perspectives”
Invited talk at the International Conference on Giant Resonances (GR2000)
Osaka, Japan (June 12-15, 2000)
- 127 *Co-chairperson (with H. Sakai) of Organizing Committee* of the International Symposium on Strong Correlations in Many-Body Systems
Tokyo/Mount Nikko, Japan (June 26-30, 2000)
- 128 “Isospin and spin-isospin modes in charge-exchange reactions”
Seminar, NSCL, MSU, East Lansing, Michigan, U.S.A. (October 19, 2000)
- 129 “Giant-resonance studies with radioactive beams: Perspectives”
Invited talk at the International Symposium on Perspectives in Physics with Radioactive Isotope Beams 2000 (RIB00)
Hayama, Japan (November 13-16, 2000)
- 130 “Excitation of GT Strength in (p,n) -like reactions”
Seminar, Department of Physics, University of Tokyo, Tokyo, Japan (November 5, 2002)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 131 “Excitation of isospin and spin-isospin modes in the β^+ -direction”
Invited talk at the International Symposium on “Frontiers of Collective Motions (CM2002)”
Aizu-Wakamatsu, Fukushima, Japan (November 6-9, 2002)
- 132 “Giant-resonance studies at KVI: Recent results”
Seminar, RCNP, Osaka, Japan (November 12, 2002)
- 133 “Nuclear structure studies at KVI: present status and future perspectives”
Invited talk at the Seminar on “Symmetries in Nuclear Structure”
Erice - Sicily, Italy (March 23-30, 2003)
- 134 “Giant resonance research: present interest and future perspectives”
Invited talk (concluding remarks) at the International Conference on “Collective Motion in Nuclei under Extreme Conditions (COMEX1)”
Paris, France (June 10-13, 2003)
- 135 “NuPECC Long-range plan”
Invited talk at the VIII International Conference on “Nucleus-nucleus collisions”
Moscow, Russia (June 17-21, 2003)
- 136 “Microscopic and macroscopic properties of the ISGDR from particle decay studies”
Invited talk at the ECT* International Workshop on “Nuclear Response under Extreme Conditions”
Trento, Italy (October 20-24, 2003)
- 137 “Physics with a multi-MW proton source: Nuclear physics aspects”
Invited talk at the Workshop on “Physics with a Multi-MW Proton Source”
CERN, Geneva, Switzerland (May 25-27, 2004)
- 138 “Research at AGOR: 1996 - 2004”
Seminar, IPN, Orsay, France (May 28, 2004)
- 139 “Nuclear physics in the coming decade: A European perspective”
Invited talk at the “10*30 Anniversary Symposium on Cyclotron Research at JYFL”
Jyväskylä, Finland (June 18, 2004)
- 140 “Planned and under construction international facilities in Europe”
Invited talk at “The First Meeting of the C12 International Committee on Cooperation in Nuclear Physics”
Göteborg, Sweden (June 27, 2004)
- 141 “Table ronde: Contexte et perspectives en Europe”
Invited talk at “Journées de Prospectives DSM/DAPHNIA-IN2P3”
Le Colle sur Loup (Nice), France (October 13, 2004)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 142 “NuPECC: Mission, Structure and Forward Look”
Invited talk at the PESC/ESF Standing Committee Meeting
Limassol, Cyprus (October 21-22, 2004)
- 143 “Determination of GT^+ strength and its astrophysical implications”
Invited talk at the International Symposium on “Correlation Dynamics in Nuclei”
Tokyo, Japan (January 31 - February 4, 2005)
- 144 “NuPECC Long Range Plan and preparations for EU-FP7”
Invited talk at EURONS General Assembly Meeting
Madeira, Portugal (February 7-8, 2005)
- 145 “Future of Nuclear Physics in Europe”
Seminar, NIPNE, Bucharest, Romania (May 13, 2005)
- 146 “Strategic plan for nuclear physics research in Europe
Invited talk at the International Symposium on Exotic Nuclear Systems (ENS'05)
Debrecen, Hungary (June 20-25, 2005)
- 147 “Collective modes investigated by inelastic scattering and charge-exchange reactions with
magnetic spectrometers”
Invited lectures (3 lectures) at the 4th CNS International Summer School (CISS05)
Wakoshi, Tokyo, Japan (August 18-23, 2005)
- 148 “Experimental studies of neutrino nuclear responses: Nuclear probes”
Invited talk at NNR05 Workshop on “Neutrino Nuclear Responses in Double Beta Decays and
Low-energy Astro-neutrinos”
SPRING-8, Hyogo, Japan (December 2-4, 2005)
- 149 “Microscopic structure of the dipole compression mode in heavy nuclei”
Invited talk at the International Conference on Nuclear structure Physics (NSP06)
Shanghai, P.R. of China (June 12-17, 2006)
- 150 “Charge-exchange Reactions: Probing Modes of Astrophysical Interest”
Seminar, Department of Physics, Shanghai Jiao Tong University, Shanghai, P.R. of China (June
20, 2006)
- 151 “Compression modes in (medium-) heavy nuclei: excitation and microscopic structure”
Seminar, RCNP, Osaka, Japan (July 4, 2006)
- 152 “Compression modes in (medium-) heavy nuclei: excitation and microscopic structure”
Seminar, CNS-RIKEN, Wakoshi, Tokyo, Japan (July 20, 2006)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 153 “High-resolution measurements of charge-exchange reactions: spectroscopic tools for spin-isospin modes”
Invited talk at the RCNP Mini-workshop on Physics with Light-Ion Induced High-Resolution Experiments
RCNP, Osaka, Japan (July 27, 2006)
- 154 “NuPECC: The founding fathers and their legacy”
Invited talk at the Symposium on Subatomic Physics - Highlights and Perspectives, in Honour of Paul Kienle “Wie kommt man auf einfaches Neues?”
Vienna, Austria (September 1, 2006)
- 155 “Investigation of isoscalar and isovector collective modes of astrophysical interest”
Invited (three) lectures at the 5th International Balkan School on Nuclear Physics with Radioactive Beams
Brasov, Romania (September 7-14, 2006)
- 156 “NuPECC’s strategic position regarding nuclear physics research in Europe”
Invited talk at the ESF General Assembly Meeting
Strasbourg, France (November 30 - December 1, 2006)
- 157 “SPIRAL2: A broad scientific programme with an evolving roadmap”
Invited talk at the Annual NuSTAR Meeting
GSI, Darmstadt, Germany (March 21-23, 2007)
- 158 **Co-organizer (with P. Van Isacker)** of the ECT* Doctoral Training Programme on Nuclear Structure and Reactions
Trento, Italy (March 8 – June 1, 2007)
- 159 “Study of spin-isospin modes and their influence on astrophysical processes”
Invited talk at the 22nd Carpathian Summer School of Physics 2007 (CSSP07) on Exotic Nuclei and Nuclear Particle Astrophysics (II)
Sinaia, Romania (August 20-31, 2007)
- 160 “Nuclear Physics at KVI: achievements and perspectives”
Invited talk at the Symposium on “Trends in heavy ion physics research”
Dubna, Russian Federation (May 21-25, 2008)
- 161 “NuPECC evolving roadmap for RIB large scale facilities”
Invited talk at EURORIB’08, Giens, France (June 9-13, 2008)
- 162 “Study of spin-isospin modes and their influence on astrophysical processes”
Seminar, Institute of Nuclear Physics, Polish Academy of Sciences (IFJ PAN), Krakow, Poland (October 20, 2008)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 163 “Nuclear physics programs at KVI: achievements and perspectives”
Seminar, Hadron Physics Research Center, Krakow, Poland (October 21, 2008)
- 164 “Nuclear energy: Transition and sustainability”
Invited talk at the Workshop Japan-Netherlands on Energy Transition
Groningen, The Netherlands (November 17-19, 2008)
- 165 “Nuclear energy: Transition and sustainability”
Invited lecture at the Course “Social Systems Analysis of Technological Innovation” at Faculty
of Economics and Business
Groningen, The Netherlands (December 5, 2008)
- 166 “Collective nuclear excitations: low and high, cold and hot”
Invited talk at the Symposium in honour of Marcello Pignanelli “Marcello and half century of
Research in Nuclear Physics”
Milano, Italy (May 11, 2009)
- 167 “Gamow-Teller transitions: Implications for supernova scenarios and double- β decay”
Invited talk at the International conference on Nuclear Structure and Related Topics
(NSRT2009)
Dubna, Russia (June 30 – July 4, 2009)
- 168 Member of the Organizing Committee of the XVith Colloque GANIL
Giens, France (September 6-11, 2009)
- 169 “Gamow-Teller transitions: Implications for supernova scenarios and double- β decay”
Seminar, Nuclear Physics division SPhN, IRFU, CEA, Saclay, France (September 18, 2009)
- 170 “Gamow-Teller transitions: Implications for supernova scenarios and double- β decay”
Seminar, GANIL, Caen, France (September 23, 2009)
- 171 “Compression modes: Nuclear incompressibility and microscopic structure”
Invited talk at the International Symposium on Exotic Nuclei (EXON-2009)
Sochi, Russia (September 28 – October 2, 2009)
- 172 “European Nuclear Science and Applications Research (ENSAR)”
Invited talk at the Scoping Workshop of the NuPECC Long Range Plan 2010
FIAS, Frankfurt, Germany (October 12-13, 2009)
- 173 “Concluding remarks”
Invited talk at the UK-French Collaboration Meeting
Liverpool, United Kingdom (October 26-27, 2009)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 174 “SPIRAL2: The mid-term and long-range plans”
Invited talk at the JS70 Symposium in honour of the 70th anniversary of Prof. J. Styczen
Krakow, Poland (November 6, 2009)
- 175 “Compression modes: Nuclear incompressibility and microscopic structure”
Seminar, GANIL, Caen, France (November 20, 2009)
- 176 Member of the Organizing Committee of the SPIRAL2 Week
Caen, France (January 25-28, 2010)
- 177 “The elusive and not so elusive giant resonances: Dreams and reality”
Invited talk at the Cracow Symposium
Krakow, Poland (February 12, 2010)
- 178 “Gamow-Teller transitions: Implications for supernova scenarios and double- β decay”
Seminar, IPNO, Orsay, France (February 15, 2010)
- 179 “Gamow-Teller transitions: Implications for supernova scenarios and double- β decay”
Invited talk at the ICHOR-EFES International Symposium on New Facet of Spin-Isospin
Responses (SIR2010)
Tokyo, Japan (February 18-21, 2010)
- 180 “Gamow-Teller transitions: Implications for supernova scenarios and double- β decay”
Invited talk at the Annual NuSTAR Meeting
Darmstadt, Germany (March 3-5, 2010)
- 181 “European large nuclear physics facilities: Pan-European and international perspectives”
Invited talk at First ASEPS: ASia-Europe Physics Summit
Tsukuba, Japan (March 24-26, 2010)
- 182 “Collective excitations in exotic nuclei: experimental techniques and determination of nuclear
properties”
Invited talk at ECT workshop “Reactions and Nucleon Properties in Rare Isotopes”
ECT*, Trento, Italy (April 6-10, 2010)
- 183 “Status of the EU-FP7 funded Integrating Activity ENSAR (European Nuclear Science and
Applications Research)”
Invited talk at The Second International EURORIB Conference “EURORIB’10”
Lamoura, France (June 6-11, 2010)
- 184 “Compression modes: Determination of nuclear matter incompressibility and asymmetry term”
Colloquium, Department of Physics, University of Köln, Germany (June 15, 2010)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 185 “Spin-isospin modes: Implications for astrophysics and double- β decay”
Invited Lectures at International School of Physics “Enrico Fermi” “From the Big Bang to the Nucleosynthesis”
Varenna (Lake Como), Italy (July 19-24, 2010)
- 186 “Scope of the Integrating Activity *European Nuclear Science and Applications Research* (ENSAR)”
Invited Talk at FINUSTAR3, the 3rd International Conference on Frontiers in Nuclear Structure, Astrophysics and Reactions
Rhodes, Greece (August 23-27, 2010)
- 187 “Gamow-Teller transitions: implications for astrophysics and double- β decay”
Seminar, LNL, Legnaro, Italy (April 21, 2011)
- 188 “Nuclear matter incompressibility: Determination from compression modes”
Invited Talk at the Turkish Physical Society 28th International Physics Congress
Bodrum, Turkey (September 6-9, 2011)
- 189 “Giant resonance studies: Perspectives”
Invited Lectures at 30 Years Joliot-Curie School “Physics at the femtometer scale”
La Colle sur Loup, Nice, France (September 12-17, 2011)
- 190 “Giant resonances: Compression modes and spin-isospin modes”
Invited Lectures at Tokyo Institute of Technology
Tokyo, Japan (December 8, 2011)
- 191 “Kernfusie en Kernsplijting: Onderzoek naar toekomstige energiebronnen”
Voordracht voor het Natuurwetenschappelijk Genootschap Assen
Assen, The Netherlands (February 14, 2012)
- 192 “Spin-isospin responses by charge-exchange reactions and implications for astrophysics”
Invited Talk at the 4th International Symposium on Neutrinos and Dark Matter in Nuclear Physics (NDM12)
Nara, Japan (June 11-15, 2012)
- 193 “Giant resonances: Fundamental modes and probes of nuclear properties”
Invited Lectures at the 19th “Euroscool on Exotic Beams”
Athens, Greece (September 9-15, 2012)
- 194 “Reuzenresonanties: Grondtonen van de Atoomkern”
“Giant resonances: Fundamental modes of the nucleus”
Voordracht voor de Krans van Professorendames Groningen
Groningen, The Netherlands (September 28, 2012)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 195 “Some introduction to giant resonances and related physics: Experiment and Theory”
Invited Lectures for young participants at the International Conference on Collective Motions in Nuclei under Extreme Conditions (COMEX4)
Kanagawa, Japan (October 22-26, 2012)
- 196 “Giant resonances: Compression modes and nuclear incompressibility”
Seminar, Innovation Centre for Advanced Sensors and Sensor Systems (INCAS3)
Assen, The Netherlands (November 8, 2012)
- 197 “European Nuclear Science and Applications Research 2 (ENSAR2)”
Invited talk at THEXO Workshop
ECT*, Trento, Italy (July 8-12, 2013)
- 198 “The Foundation of NuPECC”
Invited talk at Celebration 25th Anniversary NuPECC Highlights and Achievements
Kraków, Poland (October 11, 2013)
- 199 “European Nuclear Science and Applications Research (ENSAR)”
Invited talk at ECOS-LINCE Workshop
Huelva, Spain (October 30-31, 2013)
- 200 “Study of isoscalar giant resonances in exotic nuclei by means of inverse reactions”
Invited talk at the First International African Symposium on Exotic Nuclei (IASEN-2013)
Cape Town, South Africa (December 2-6, 2013)
- 201 “Memories of an Exciting Experience as Chair of COSY-PAC”
Invited talk at the 42nd COSY-PAC Meeting
IKP, FZ Jülich, Germany (February 24-25, 2014)
- 202 “Overview of Super-FRS experiments”
Invited talk at the NUSTAR Week
Valencia, Spain (September 22-26, 2014)
- 203 “European Nuclear Science and Applications Research 2 (ENSAR2)”
Invited talk at the NUSTAR Week
Valencia, Spain (September 22-26, 2014)
- 204 “Nuclear Science in Europe: Present and Future Perspectives”
Seminar, INFN, Sezione di Pisa, Pisa, Italy (October 2, 2014)
- 205 “Presentation of ENSAR/ENSAR2”
Talk at ECOS-EURISOL Joint Town Meeting
IPN Orsay, France (October 28-31, 2014)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 206 “Nuclear Science in Europe”
Invited talk at “Colloquium 60-50-40”
KU Leuven, Leuven, Belgium (November 21, 2014)
- 207 “Introduction: collective modes and exotic nuclei”
Invited talk at the Workshop on “Collective Mode Study through Beta-Decay Measurements”
SUBATECH, Nantes, France (January 19-20, 2015)
- 208 “Introduction: neutrino-mediated (weak force) reactions and spin-isospin collective modes in nuclei”
Introduction given in session on “Giant Resonances in Astro and Neutrino Physics” organized by
Muhsin Harakeh and Remco Zegers at Gordon Research Conference
New London, New Hampshire, U.S.A. (May 31 – June 5, 2015)
- 209 “European Nuclear Science and Applications Research 2 (ENSAR2)”
Invited talk at the ECOS-LINCE Workshop
Huelva, Spain (July 8-10, 2015)
- 210 “Giant collective modes in nuclei”
Invited talk at the ECOS-LINCE Workshop
Huelva, Spain (July 8-10, 2015)
- 211 “Giant resonances: Fundamental modes and probes of nuclear properties”
Invited lectures at the NUBA International Nuclear Physics Summer Course 2015
Akdeniz University, Antalya, Turkey (August 22-30, 2015)
- 212 “A time span of active research: How further?”
Invited talk at the SYMPOSIUM on the Occasion of Angela Bracco’s and Adam Maj’s 60th
Birthday
Kraków, Poland (September 14, 2015)
- 213 “Collective excitations of atomic nuclei”
Invited talk at the 5th International Conference on “Collective Motion of Nuclei under Extreme
Conditions (COMEX 5)”
Kraków, Poland (September 14-18, 2015)
- 214 “Physics with Exotic Nuclei in Europe”
Invited talk at the 19th Colloque GANIL
Anglet, France (October 12-16, 2015)
- 215 “Discussion and conclusions”
Led discussion in last session of “Workshop on experiments with high-resolution spectrometers
and separators” co-organized together with Christoph Scheidenberger
GSI, Darmstadt, Germany (November 4-6, 2015)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 216 “Study of compression modes in stable and exotic nuclei”
Seminar, TU Darmstadt, Germany (November 12, 2015)
- 217 “Collective modes: past, present and future perspectives”
Invited talk at the International Symposium on “High-resolution Spectroscopy and Tensor interactions (HST15)”
Osaka, Japan (November 16-19, 2015)
- 218 “New Instrumentation and Techniques”
Session in “Zakopane Conference on Nuclear Physics: Extremes of the Nuclear Landscape”
organized by Muhsin N. Harakeh
Zakopane, Poland (August 28 - September 4, 2016)
- 219 “Giant resonances: Compression modes”
Invited Lecture at the VIth School “Tastes of Nuclear Physics”
Stellenbosch, South Africa (November 1-3, 2016)
- 220 “ENSAR2: a European project with international dimension”
Invited talk at the GANIL-SPIRAL2 Week 2016
Caen, France (November 21-24, 2016)
- 221 “Giant resonances: Fundamental collective modes of nuclear excitation - Electric modes”
Two lectures at RCNP
RCNP, Osaka University, Japan (May 21, 2017)
- 222 “Giant resonances: Fundamental collective modes of nuclear excitation - Charge-exchange modes”
Two lectures at RCNP
RCNP, Osaka University, Japan (May 22, 2017)
- 223 “Study of giant resonances in exotic nuclei by means of reactions in inverse kinematics”
Seminar, RCNP, Osaka University, Japan (May 22, 2017)
- 224 “Giant Resonances along the $N=Z$ line: prospects and opportunities”
Invited talk at the RESIST Annual Meeting and “Physics opportunities around ^{100}Sn ” Workshop
Leuven, Belgium (September 13-15, 2017)
- 225 “Collective excitations in nuclei: The isoscalar and isovector electric giant resonances and spin-isospin charge-exchange modes”
Invited lectures at the XVI International Meeting on “Selected Topics in Nuclear and Atomic Physics”
Fiera di Primiero, Italy (October 2-6, 2017)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 226 “ENSAR2: A European Integrated Activity with international dimension”
Invited talk at the Advanced Nuclear Science and Technology Techniques (ANSTT2018) Workshop
iThemba LABS, Faure, South Africa (March 5-9, 2018)
- 227 “ENSAR2: Status and progress”
Invited talk at the EURORIB 2018 Conference
Giens, France (May 28 – June 1, 2018)
- 228 “Excitation and gamma-decay of Collective modes”
Invited talk at the Annual Meeting of the Collaborative Research Center, SFB 1245
Mainz, Germany (July 4-6, 2018)
- 229 “Recent studies of the monopole and dipole response in nuclei”
Invited talk at the 53rd Zakopane Conference on Nuclear Physics
Zakopane, Poland (August 26 - September 2, 2018)
- 230 “Nuclear compression modes from stable to exotic nuclei”
Invited talk at the Symposium INCT-FNA 2019
Rio de Janeiro, Brazil (May 27-30, 2019)
- 231 “Collective excitations in nuclei: The isoscalar and isovector electric giant resonances and spin-isospin charge-exchange modes”
Seven Invited lectures at the Summer School on Resonances
Oslo, Norway (June 3-14, 2019)
- 232 “ENSAR2 research infrastructures and international sister facilities”
Invited talk at the African Nuclear Physics Conference (ANPC 2019)
Kruger National Park, South Africa (July 1-5, 2019)
- 233 “Nuclear compression modes from stable to exotic nuclei”
Seminar, CNS (University of Tokyo) - RIKEN, Wako, Saitama, Japan (February 3, 2020)
- 234 “Nuclear compression modes from stable to exotic nuclei”
Seminar, LNS, Catania, Italy (February 26, 2020)
- 235 “Study of isoscalar and isovector electric giant resonances in direct and inverse kinematics”
Invited lectures at the Carpathian Summer School of Physics
Sinaia, Romania (August 18-27, 2021)
- 236 “Nuclear compression modes from stable to exotic nuclei”
Invited talk at the XV International Conference on Nuclear Structure Properties (NSP2022)
Kirikkale University, Turkey (June 28-30, 2022)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 237 “Experimental studies of the GMR (stable and unstable nuclei)”
Chair of round table discussion session at ECT* workshop on the GMR
ECT*, Trento, Italy (July 11-15, 2022)
- 238 “Isoscalar Giant Resonances – experiments with radioactive beams and storage rings”
Invited talk at the 55th Zakopane Conference on Nuclear Physics
Zakopane, Poland (August 28 - September 4, 2022)
- 239 “Giant Resonances: Fundamental Collective Modes of Nuclear Excitation - Electric Modes and Charge-Exchange Modes”
Three lectures (Distinguished Lecturers Series) at SAINTS, iThemba LABS, Faure, South Africa (September 19, 2022)
- 240 “Study of giant resonances in exotic nuclei by means of reactions in inverse kinematics”
Seminar, SAINTS, iThemba LABS, Faure, South Africa (September 20, 2022)
- 241 Giant Resonances Fundamental Collective Modes of Nuclear Excitation, Electric Modes”
Seminar, IFJ PAN, Kraków, Poland (January 26, 2023)
- 242 “Giant Resonances: Fundamental Collective Modes of Nuclear Excitation - Electric Modes and Charge-Exchange Modes”
Invited Lecture Series at INTPART School 2023
Okinawa, Japan (February 20 - March 3, 2023)
- 243 “The spin-isospin response of the atomic nuclei”
Invited Talk at the International Symposium on the “Extreme Quantum System (NUSPEQ2023)”
Numazu city, Japan (March 7-9, 2023)
- 244 “Giant Resonances: Fundamental Collective Modes of Nuclear Excitation - Electric Modes”
“Study of giant resonances in exotic nuclei by means of reactions in inverse kinematics”
“Giant Resonances: Fundamental Collective Modes of Nuclear Excitation - Charge-Exchange Modes”
“Determination of GT^+ Strength in fp -shell Nuclei and its Astrophysical Implications”
Invited four lectures at the University of the West of Scotland
Paisley, Scotland (May 11-25, 2023)
- 245 “Giant Resonances: Fundamental Collective Modes of Nuclear Excitation - Charge-Exchange Modes”
“Determination of GT^+ Strength in fp -shell Nuclei and its Astrophysical Implications”
Invited lectures at the Carpathian Summer School of Physics (CSSP23)
Sinaia, Romania (July 2-15, 2023)

SEMINARS AND INVITED TALKS

M.N. Harakeh

- 246 “Giant Resonances: Fundamental Collective Modes of Nuclear Excitation - Electric Modes”
“Study of giant resonances in exotic nuclei by means of reactions in inverse kinematics”
“Giant Resonances: Fundamental Collective Modes of Nuclear Excitation - Charge-Exchange Modes”
Invited lectures at the 3rd Nuclear physics School for Young Scientists (NUSYS)
Fudan University, Shanghai, China (August 6-12, 2023)
- 247 “Determination of GT^+ Strength in fp -shell Nuclei and its Astrophysical Implications”
Seminar, Lanzhou University, Lanzhou, China (August 16, 2023)
- 248 “Collective Excitations in Nuclei: Excitation and Decay of Isoscalar Electric Giant Resonances”
Seminar, Institute of Modern Physics Chinese Academy of Sciences, Lanzhou, China
(August 17, 2023)
- 249 “Nuclear structure studies with reactions in inverse kinematics”
Invited Talk at the International workshop on nuclear physics related to HIAF
Huizhou Research Department, Institute of Modern Physics, Chinese Academy of Sciences,
Huizhou City, Guangdong Province, China
(April 16-19, 2024)

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PROMOTIONS

M.N. Harakeh

- 001 F. Zwarts
“Decay of isoscalar giant resonances in ^{24}Mg and ^{40}Ca ”
Rijksuniversiteit Groningen, Groningen, March 1983
Promotor: A. van der Woude; referents: R.H. Siemssen and M.N. Harakeh
- 002 S. Brandenburg
“Decay of the giant monopole resonance in heavy nuclei”
Rijksuniversiteit Groningen, Groningen, August 1985
Promotor: A. van der Woude; referent: M.N. Harakeh
- 003 R. Kouw
“Microscopic description of inelastic proton scattering from ^{88}Sr ”
Vrije Universiteit, Amsterdam, February 1987
Promotor: J. Blok; co-promotor: H.P. Blok; referent: M.N. Harakeh
- 004 P. Grasdijk
“The reaction mechanism of the $(^3\text{He},t)$ reaction and applications to nuclear structure”
Rijksuniversiteit Groningen, Groningen, September 1986
Promotors: A. van der Woude and M.N. Harakeh; referent: S.Y. van der Werf
- 005 A. Stolk
“Study of the giant dipole resonance built on highly excited states in Sn and Dy nuclei”
Vrije Universiteit, Amsterdam, May 1988
Promotors: H. Verheul and M.N. Harakeh; co-promotor: W.H.A. Hesselink
- 006 W.T.A. Borghols
“Damping of the giant monopole resonance in ^{90}Zr and ^{124}Sn ”
Rijksuniversiteit Groningen, Groningen, July 1988
Promotors: A. van der Woude and M.N. Harakeh
- 007 R. Ent
“Investigation of correlations in nuclei with the $(e,e'X)$ reaction”
Vrije Universiteit, Amsterdam, November 1989
Promotor: M.N. Harakeh; co-promotor: H.P. Blok
- 008 T.D. Poelhekken
“Isoscalar and isovector collective dipole states: An experimental study of the $1\hbar\omega$ dipole strength using the $(\alpha,\alpha'\gamma)$ reaction at 0° ”
Rijksuniversiteit Groningen, Groningen, November 1989
Promotors: M.N. Harakeh and A. van der Woude

PROMOTIONS

M.N. Harakeh

- 009 A. Hogenbirk
“The structure of ^{36}S and $^{196,200,202,204}\text{Hg}$ studied by means of the (p,p') reaction”
Vrije Universiteit, Amsterdam, November 1989
Promotor: M.N. Harakeh; co-promotor: H.P. Blok
- 010 J.J.A. Zalmstra
“Coupled-channels analysis of inelastic proton scattering off ^{28}Si ”
Vrije Universiteit, Amsterdam, January 1990
Promotor: M.N. Harakeh; co-promotor: J.F.A. van Hienen
- 011 J. Makjanić
“Carbon in chondrites: Distribution and structure”
Vrije Universiteit, Amsterdam, September 1990
Promotors: M.N. Harakeh and J.L.R. Touret; co-promotors: J.W. Hovenier and R.D. Vis
- 012 R.K.J. Sandor
“Shape transition in the Nd-isotopes: An electron scattering study”
Vrije Universiteit, Amsterdam, February 1991
Promotor: M.N. Harakeh; co-promotor: C.W. de Jager
- 013 H.J. Hofmann
“Mechanisms of high energy gamma-ray production in nuclear collisions”
Rijksuniversiteit Groningen, Groningen, April 1991
Promotors: A. van der Woude and M.N. Harakeh
- 014 D.E.J. Riedeman
“Quasi-particle excitations in the fp shell nuclei ^{65}Cu and ^{71}Ga : An electron-scattering study”
Vrije Universiteit, Amsterdam, June 1991
Promotor: M.N. Harakeh; co-promotors: H. de Vries and C.W. de Jager
- 015 J. Wesseling
“Electron scattering studies of nuclear structure in light and medium-heavy nuclei”
Vrije Universiteit, Amsterdam, May 1992
Promotor: M.N. Harakeh; co-promotors: C.W. de Jager and H. de Vries
- 016 J.P.S. van Schagen
“The angular momentum and temperature dependence of the GDR in Dy nuclei”
Vrije Universiteit, Amsterdam, May 1992
Promotor: M.N. Harakeh; co-promotor: W.H.A. Hesselink

PROMOTIONS

M.N. Harakeh

- 017 G. Tros
“Quantitative microanalysis by means of a proton microbeam: The effect of fluoride on mineralisation in neonatal hamster tooth germs”
Vrije Universiteit, Amsterdam, September 1992
Promotor: M.N. Harakeh; co-promotor: R.D. Vis
- 018 A.J.M. Plompen
“Collective and quasiparticle excitations in light Pb isotopes”
Vrije Universiteit, Amsterdam, May 1993
Promotor: M.N. Harakeh; co-promotor: W.H.A. Hesselink
- 019 J. Lác
“Electron scattering: study of internal target effects and of the $^{209}\text{Bi}(e,e'p)$ reaction”
Vrije Universiteit, Amsterdam, December 1993
Promotor: M.N. Harakeh; co-promotor: C.W. de Jager
- 020 H.B. van den Brink
“Pion production on the proton and ^{13}C ”
Vrije Universiteit, Amsterdam, February 1995
Promotor: M.N. Harakeh; co-promotor: H.P. Blok
- 021 G. van 't Hof
“Experimental studies on shapes and viscosity of the nucleus ^{156}Dy ”
Vrije Universiteit, Amsterdam, April 1995
Promotor: M.N. Harakeh; co-promotor: N. Kalantar-Nayestanaki
- 022 J.L.J.M. Kramer
“Quantitative microdistributions of volatile trace elements in pristine meteorites”
Vrije Universiteit, Amsterdam, March 1996
Promotors: M.N. Harakeh and J.L.R. Touret; co-promotors: J.W. Hovenier and R.D. Vis
- 023 A. Pellegrino
“Deuteron electrodisintegration in the Δ -resonance region”
Vrije Universiteit, Amsterdam, April 1996
Promotor: M.N. Harakeh; co-promotor: W.H.A. Hesselink
- 024 J.A. van Kan
“PIXE and RBS analysis on flat surfaces using glancing incident MeV ions”
Vrije Universiteit, Amsterdam, October 1996
Promotor: M.N. Harakeh; co-promotor: R.D. Vis

PROMOTIONS

M.N. Harakeh

- 025 A. Bakker
“MWPCs for SALAD: Design, manufacturing and test of a MWPC with a central hole”
Two-year Research Training Certificate
Rijksuniversiteit Groningen, Groningen, April 1997
Promotor: M.N. Harakeh; co-promotor: N. Kalantar-Nayestanaki
- 026 C.M. Spaltro
“Determination of the various structure functions in electron-induced deuteron knockout from ^3He and ^4He ”
Vrije Universiteit, Amsterdam, June 1997
Promotor: M.N. Harakeh; co-promotor: H.P. Blok
- 027 K. van der Schaaf
“The Plastic Ball: a plug-and-play dilepton spectrometer?”
Two-year Research Training Certificate
Rijksuniversiteit Groningen, Groningen, February 1999
Promotor: M.N. Harakeh; co-promotor: J.C.S. Bacelar
- 028 R.G.T. Zegers
“Search for isovector giant monopole resonances”
Rijksuniversiteit Groningen, Groningen, November 1999
Promotor: M.N. Harakeh; referents: S. Brandenburg and A.M. van den Berg
- 029 H.K.T. van der Molen
“An experimental study of population and damping mechanisms of high-lying proton states”
Rijksuniversiteit Groningen, Groningen, November 1999
Promotor: M.N. Harakeh; referent: A.M. van den Berg
- 030 H. Huisman
“High-precision measurements of proton-proton bremsstrahlung at 190 MeV”
Rijksuniversiteit Groningen, Groningen, December 1999
Promotor: M.N. Harakeh; referent: N. Kalantar-Nayestanaki
031. V.M. Hannen
“A high-precision study of polarized proton scattering to low-lying states in ^{11}B ”
Rijksuniversiteit Groningen, Groningen, September 2001
Promotor: M.N. Harakeh; co-promotor: A.M. van den Berg
- 032 M. Volkerts
“A comprehensive study of proton-deuteron bremsstrahlung”
Rijksuniversiteit Groningen, Groningen, November 2001
Promotor: M.N. Harakeh; co-promotor: N. Kalantar-Nayestanaki

PROMOTIONS

M.N. Harakeh

- 033 F. Fleurot
“ ^{16}O Coulomb dissociation: a means to determine $^{12}\text{C}+\alpha$ fusion rate in stars”
Rijksuniversiteit Groningen, Groningen, September 2002
Promotor: M.N. Harakeh; co-promotor: H.W.E.M. Wilschut; referent: J. Kiener
- 034 K. Ermisch
“Search for three-nucleon force effects in proton-deuteron elastic scattering”
Rijksuniversiteit Groningen, Groningen, February 2003
Promotor: M.N. Harakeh; co-promotor: N. Kalantar-Nayestanaki
- 035 P. van Luijk
“Dose-volume effects in the rat spiral cord”
Rijksuniversiteit Groningen, Groningen, November 2003
Promotors: M.N. Harakeh, A.W.T. Konings; referent: J.M. Schippers
- 036 M.A. de Huu
“Experimental determination of the J^π components of the spin-dipole resonance in ^{12}B ”
Rijksuniversiteit Groningen, Groningen, January 2004
Promotor: M.N. Harakeh; co-promotors: A.M. van den Berg and H.J. Wörtche
- 037 M. Mahjour-Shafiei
“Study of proton-proton bremsstrahlung towards the elastic limit”
Rijksuniversiteit Groningen, Groningen, June 2004
Promotors: N. Kalantar-Nayestanaki, M.N. Harakeh
- 038 Andrija Matic
“High precision (p,t) reactions to determine reaction rates of explosive stellar processes”
Rijksuniversiteit Groningen, Groningen, June 2007
Promotor: M.N. Harakeh; co-promotor: A.M. van den Berg
- 039 Hossein Moeini
“Feasibility experiment and simulations for EXL”
Rijksuniversiteit Groningen, Groningen, May 2010
Promotors: N. Kalantar-Nayestanaki, M.N. Harakeh
- 040 Soumya Bagchi
“Study of Compression Modes in ^{56}Ni using an Active Target”
Rijksuniversiteit Groningen, Groningen, May 2015
Promotors: N. Kalantar-Nayestanaki, M.N. Harakeh

