

April 14, 2017

Curriculum Vitae

RUPRECHT MACHLEIDT

Personal Data

Professional Status	Professor of Physics
Field of Research	Theoretical Nuclear Physics
Institution	University of Idaho
Address	Department of Physics University of Idaho Moscow, Idaho 83844-0903 U. S. A.
Telephon	Office (208) 885-6380
E-mail	<i>machleid@uidaho.edu</i>
Personal Website	http://machleidt.weebly.com
Nationality	U.S. and German citizen

Research Interests

Theoretical nuclear physics; theory of nuclear forces, meson theory, chiral effective field theory; nucleon-nucleon (NN) scattering below and above the pion-production threshold; NN potentials, nuclear many-body forces, few-nucleon physics; ab initio approaches to nuclear structure and reactions; nuclear matter theory with relativity and subnuclear degrees of freedom.

Some Other Interests

Nuclear medicine, radiation therapies for the treatment of cancer, proton therapy; Greek philosophy and modern particle physics, the dream of a theory of everything through history; the Intelligent Design controversy, Science and Religion.

Main Research Accomplishments

- Meson theory of nuclear forces. The Bonn meson-exchange model for the nucleon-nucleon interaction, R. Machleidt, K. Holinde, and Ch. Elster, *Physics Reports* **149**, 1 (1987) [2943 citations according to Google Scholar]; R. Machleidt, The meson theory of nuclear forces and nuclear structure, *Advances in Nuclear Physics* **19**, 189 (1989) [1810 citations].
- The Dirac-Brueckner approach to nuclear matter. Major publications: R. Brockmann and R. Machleidt, *Physics Letters B* **149**, 283 (1984) [267 citations]; R. Brockmann and R. Machleidt, *Physical Review C* **42**, 1965 (1990) [741 citations].
- High-precision NN potentials (“CD-Bonn”). Major publications: R. Machleidt, F. Sammarruca, and Y. Song, *Physical Review C* **53**, 1483 (1996) [805 citations]; R. Machleidt, *Physical Review C* **63**, 024001 (2001) [1618 citations].
- Chiral effective field theory and nuclear forces. Major publications: D. R. Entem and R. Machleidt, *Physical Review C* **68**, 041001 (2003) [1046 citations]; R. Machleidt and D. R. Entem, *Physics Reports* **503**, 1 (2011) [558 citations].
- Total of 154 publications in refereed journals plus 154 conference contributions; 15,576 citations and h-index of 47 according to Google Scholar.
- 72 invited talks and lectures during the past 10 years.
- On-line article about *Nuclear Forces* written for Scholarpedia (the peer-reviewed open-access encyclopedia) has been accessed 71,045 times within three years.

Educational Background

Ph.D., Physics, University of Bonn, Germany, 1973.

M.S., Physics, University of Bonn, Germany, 1971.

Professional Experience

Acting Chair, Department of Physics, University of Idaho, August 2003 - July 2006.

Professor of Physics (tenured), University of Idaho, since 1991.

Associate Professor of Physics, University of Idaho, 1988-91.

Adjunct Associate Professor of Physics, University of California at Los Angeles (UCLA), 1986-88.

Visiting Associate Research Physicist, Los Alamos Meson-Physics Facility (LAMPF), Los Alamos National Laboratory, Los Alamos, New Mexico, 1986-88.

Visiting Faculty Member, Virginia Polytechnic Institute and State University (VPI), Blacksburg, Virginia, Fall 1985.

Visiting Senior Scientist, Canada's National Meson-Physics Facility (TRIUMF), Vancouver, Canada, 1983-85.

Wissenschaftlicher Assistent (\approx assistant professor/research associate), Institute for Theoretical Nuclear Physics, University of Bonn, Germany, 1978-83.

Postdoctoral Research Associate, State University of New York at Stony Brook, 1976-77.

Postdoctoral Research Associate, University of Bonn, Germany, 1974-75.

Teaching and Advising

I have taught a large repertoire of physics courses that ranges from popular science to advanced graduate classes.

I have advised and co-advised a large number of undergraduate and graduate (M.S. and Ph.D.) students.

Professional Activities

Consultant

Los Alamos National Laboratory, Physics Division (P-15), Los Alamos, New Mexico, 1986-88.

Reviews for Funding Agencies

U.S. National Science Foundation (NSF),

Theoretical Physics Program,

Condensed Matter Theory Program.

U.S. Department of Energy (DOE).

San Diego Supercomputer Center.

Natural Science and Engineering Research Council of Canada (NSERC).

Australian Research Council (ARC).

Foundation for Research Development of South Africa.

Italian Department for Teaching and University Research (MIUR).

CINECA, Consortium of 54 Italian Universities.

Istituto Nazionale di Fisica Nucleare (INFN), Italy.

Fondo Nacional de Investigacion Cientifica y Tecnologica, Santiago, Chile.

FWF, Der Wissenschaftsfonds (Austrian Science Fund), Vienna, Austria.

Refereeing for Physics Journals

Physical Review C

Physical Review Letters

Reviews of Modern Physics

Nuclear Physics

Physics Letters

Journal of Physics G: Nuclear and Particle Physics

Few Body Systems

Jordan Journal of Physics

Turkish Journal of Physics

Scholarpedia

Conferences and Workshops

Co-organizer of several international physics conferences and workshops.

Member of the Advisor Board of many physics conferences and workshops.

Awards, Memberships, Fellowships

Fellow, American Physical Society, since 2000.

University of Idaho Faculty Award for Research Excellence, 2001.

Vandal Pride Award, University of Idaho, 2002.

Distinguished Faculty Member, University of Idaho Chapter of the

Honor Society of Phi Kappa Phi, since 2000.
Faculty Excellence Award, University of Idaho Alumni Association, 2000.
Faculty Excellence Award, Navy ROTC, University of Idaho, 1998.
Affiliate, Institute for Nuclear Theory (INT), University of Washington,
Seattle, Washington.
Fellowship, Deutsche Forschungsgemeinschaft, 1983-85.
Postdoctoral Fellowship, Deutsche Forschungsgemeinschaft, 1976-77.

Funding

Nuclear Theory at the University of Idaho, DOE Office of Science, \$315,000, PIs: F. Sammarruca and R. Machleidt, 08/2015-07/2018.

Nuclear Theory at the University of Idaho, DOE Office of Science, \$285,000, PIs: F. Sammarruca and R. Machleidt, 08/2012-07/2015.

Nuclear Theory at the University of Idaho, DOE Office of Science, \$230,000, PIs: F. Sammarruca and R. Machleidt, 08/2009-07/2012.

Chiral Symmetry and the Nucleon-Nucleon Interaction, NSF, Theoretical Physics Program, PI: R. Machleidt, \$141,000; 5/2001-4/2007.

Relativistic Nuclear Few- and Many-Body Problems, NSF, Theoretical Physics Program, PI: R. Machleidt, \$134,564; 5/1997-4/2001.

Relativistic Meson-Nuclear Physics, NSF, Theoretical Physics Program, PI: R. Machleidt, \$87,800; 8/92-1/96.

Relativistic Nuclear Many-Body Physics, Idaho State Board of Education, PI: R. Machleidt, \$30,000; 7/92-6/93.

A Critical Study of Meson-Theoretic Approaches to Nuclear Forces and Nuclear Structure, NSF, Idaho EPSCoR Program, PI: R. Machleidt, \$70,918; 5/90-4/92.

Relativistic Nuclear Structure Physics, NATO, Scientific Affairs Division, Collaborative Research Program, \$7,100; 3/89-7/92.

Relativistic Meson-Nuclear Physics, NSF, Theoretical Physics Program, PIs: P. A. Deutchman and R. Machleidt, \$131,120; 9/89-2/93.

University of Idaho, Research Office, \$7,440 for partial postdoctoral support, PI: R. Machleidt, 3/89-8/89.

University of Idaho, College of Letters and Science, \$27,000; PI: R. Machleidt, 9/88-8/89.

Relativistic Nuclear Currents and Nucleon Electroproduction, NSF, United States – Federal Republik of Germany Cooperative Science Program, \$8,600; 3/88-8/91.

Invited Talks, Lectures, Panel Discussions (since 2000)

Recent Progress in high-precision chiral nuclear forces, R. Machleidt, Invited Talk, 2017 ICNT Program at FRIB, FRIB-MSU, East Lansing, Michigan, March 29, 2017.

Consistent, high-quality two-nucleon potentials up to fifth order of the chiral expansion, R. Machleidt, Invited Talk, Workshop on Progress in Ab Initio Techniques in Nuclear Physics, TRIUMF, Vancouver, BC, Feb. 28, 2017.

Historical Perspective and Future Prospects for Nuclear Interactions, R. Machleidt, Invited Plenary Talk, 2017 April Meeting of the American Physical Society, January 30, 2017, Washington, DC.

Current status and recent advances in chiral nuclear forces, Invited Talk, CUSTIPEN-IMP-PKU Workshop on Physics of Exotic Nuclei, December 12-15, 2016, Huizhou, China.

Nuclear Forces, Seven Invited Lectures, 2016 Nuclear Physics School, Asia Pacific Center for Theoretical Physics (APCTP), Pohang, South Korea, June 22-24, 2016.

Chiral EFT of nuclear forces: Achievements and challenges, Invited Talk, Rare Isotope Science Project (RISP), Institute of Basic Science (IBS), Daejeon, South Korea, June 21, 2016.

Ancient Greek Philosophy and Modern Physics: Amazing Parallels, Colloquium, Physics Department, University of Idaho, October, 2015.

Understanding the Atomic Nucleus: Recent Dramatic Advances and Remaining Challenges, Colloquium, Institute of Cosmic Science, University of Barcelona, Barcelona, Spain, October, 2015.

Why all that fuss about the Higgs Boson?, Colloquium, Physics and Astronomy Department, University of Calgary, Calgary, Alberta, Canada, September, 2015.

The Theory of Nuclear Forces: Eight Decades of Struggle, Invited Talk, IMP-CUSTIPEN workshop on “Properties of exotic nuclei and asymmetric nuclear matter”, Institute of Modern Physics, Chinese Academy of Science, Lanzhou, China, August, 2015.

Recent advances in chiral nuclear forces, Invited Talk, PKU-CUSTIPEN workshop on “Advances in computations of nuclear structure and nuclear forces”, Department of Physics, Peking University, Beijing, China, August, 2015.

... *and for Desert: a Higgs Boson*, After-Dinner Talk, North-West Meeting of the American Physical Society, Washington State University, Pullman, Washington, May 2015.

Chiral Nuclear Forces at N_4LO , Invited Keynote Talk, Workshop on “Progress in Ab Initio Techniques in Nuclear Physics”, TRIUMF, Canada’s National Laboratory for Particle and Nuclear Physics, Vancouver, BC, Canada, February 2015.

Recent Advances in our Understanding of Nuclear Forces and Nuclear Structure, Colloquium, Department of Physics, Washington State University, Pullman, Washington, September 9, 2014.

The Theory of Nuclear Forces: Eight Decades of Struggle, Invited Talk, Kavli Institute for Theoretical Physics China, Beijing, P. R. of China, August 2014.

Nuclear Forces, Series of four Invited Lectures, Department of Physics, Peking University, Beijing, P. R. of China, August 2014.

Nuclear Forces, Series of six Invited Lectures, Department of Physics, Tohoku University, Sendai, Japan, June/July 2014.

Chiral EFT and nuclear forces: Are we in trouble?, R. Machleidt, Invited Talk, Workshop on Nuclear Theory in the Supercomputing Era - 2014, Khabarovsk, Russia, June 2014.

The explosion of chiral many-body forces: How to deal with it?, Invited Talk, 11th International Spring Seminar on Nuclear Physics, Ischia, Italy, May, 2014.

Why all that fuss about the Higgs Boson?, Invited Keynote Talk, 56-th Annual Meeting of the Idaho Academy of Science, Moscow, Idaho, March 21, 2014.

Klaus Erkelenz and the Bonn Potential, Colloquium, Symposium in Memory of Klaus Erkelenz, University of Bonn, Germany, November 15, 2013.

Nuclear Physics—a Blessing to Mankind: Recent Advances in Radiation Therapies for Cancer, Renfrew Interdisciplinary Colloquium, University of Idaho, September 10, 2013.

Nuclear Forces, Series of four Invited Lectures, 12th Center of Nuclear Studies (CNS) International Summer School, University of Tokyo, Tokyo, August 2013.

Nuclear theory at the University of Idaho, Presentation to International Panel appointed by the Department of Energy, Washington, D.C., June 2013.

In Memoriam Gerald E. Brown, presentation at ECT* Workshop From Few-Nucleon Forces to Many-Nucleon Structure, Trento, Italy, June 2013.

Chiral Effective Field Theory for Nuclear Forces: Achievements and Challenges, R. Machleidt, Invited Plenary Talk, International Nuclear Physics Conference, Florence, Italy, June 2013.

Origin and Properties of Strong Inter-Nucleon Interactions, R. Machleidt, Invited Keynote Talk, Workshop on Nuclear Theory in the Supercomputing Era - 2013, Iowa State University, Ames, Iowa, May 2013.

What holds the nucleus together?, R. Machleidt, Invited Talk, Society of Physics Students (SPS) Zone-17 Meeting, Washington State University, Pullman, Washington, April 6, 2013.

Chiral Effective Field Theory for Nuclear Forces: The Path to Nuclear Structure from First Principles, R. Machleidt, Invited Keynote Talk, Workshop on “Progress in Ab Initio Techniques in Nuclear Physics”, TRIUMF, Vancouver, BC, Canada, February 2013.

Higgs Boson, Science on Tap, Coeur d’Alene, Idaho, January 8, 2013.

Teaching Intelligent Design: The Scientific, Theological, and Legal Controversy, R. Machleidt, Colloquium, Department of Physics, University of Idaho, December 2012.

Who needs a Higgs Boson? R. Machleidt, Colloquium, Department of Physics, University of Idaho, October 2012.

Nuclear Forces, R. Machleidt, Lecture Series, International Scientific Meeting on Nuclear Physics, La Rábida, Huelva (Spain), September 2012.

Recent Progress in the Theory of Nuclear Forces, R. Machleidt, Invited Plenary Talk, 20th International IUPAP Conference on Few-Body Problems in Physics, Fukuoka, Japan, August 2012.

Nuclear forces from chiral effective field theory: Achievements and challenges, R. Machleidt, Invited Talk, 31st International Workshop on Nuclear Theory, Rila Mountains, Bulgaria, June 2012.

Three-nucleon forces in chiral perturbation theory, R. Machleidt, Invited Plenary Talk, 2012 April Meeting of the American Physical Society, Atlanta, Georgia, April 2012.

Three-Nucleon Forces at N^3LO and Beyond, R. Machleidt, Invited Keynote Talk, Workshop on “Perspectives of the Ab Initio No-Core Shell Model”, TRIUMF, Vancouver, BC, Canada, February, 2012.

Nuclear forces from chiral effective field theory: Achievements and challenges, R. Machleidt, Invited Keynote Talk, Fifth Asia-Pacific Conference on Few-Body Problems in Physics (APFB2011), Seoul, South Korea, August 2011.

Sub-leading three-nucleon forces in chiral perturbation theory, R. Machleidt, Invited Keynote Talk, International Workshop on Three-Nucleon Forces in Vacuum and in the Medium, European Center for Theoretical Studies in Nuclear Physics and Related Areas (ECT*), Trento, Italy, July 2011.

What holds the nucleus together?, R. Machleidt, Invited Talk, Society of Physics Students (SPS) Zone-17 Meeting, Vantage Wind Farm, Vantage, Washington, April 16, 2011.

The nuclear force problem: Have we finally reached the end of the tunnel?, R. Machleidt, Invited Talk, 474th WE-Heraeus-Seminar on “Strong Interactions: From Methods to Structures”, Physikzentrum Bad Honnef (Germany), February 2011.

Have we finally cracked the nuclear force problem?, R. Machleidt, Invited Keynote Talk, International Workshop on the NN Interaction and the Nuclear Many-Body Problem, Tata Institute of Fundamental Research, Mumbai, India, November 2010.

Understanding the Atomic Nucleus: Recent Dramatic Advances and Remaining Challenges, R. Machleidt, Portuguese National Conference on Physics and Iberian Meeting on Physics Education, Vila Real, Portugal, September 2010.

Round table discussion of the nuclear force, Invited Member of the Panel, 21st European Conference on Few-Body Problems in Physics, Salamanca, Spain, August 2010.

Nuclear forces from chiral EFT: The unresolved issues, R. Machleidt, Invited Talk, 21st European Conference on Few-Body Problems in Physics, Salamanca, Spain, August 2010.

Nuclear forces from chiral EFT: The unfinished business, R. Machleidt, Invited Talk, 10th International Spring Seminar on Nuclear Physics, New Quests in Nuclear Structure, Vietri sul Mare, Italy, May 2010.

Nuclear Forces from Chiral EFT: The Unfinished Business, Theory Seminar, Jefferson Lab, Newport News, VA, April 2010.

Nuclear Physics a Blessing to Mankind: Recent Advances in Radiation Therapies for Cancer, R. Machleidt, Colloquium, Department of Physics, University of Idaho, September 2009.

Recent Advances in the Theory of Nuclear Forces and its Relevance for the Microscopic Approach to Dense Matter, Invited Talk, International Workshop on Nuclear Dynamics in Heavy Ion Reactions and the Symmetry Energy, Shanghai, China, August 2009.

The Missing Three-Nucleon Forces: Where Are They?, Invited Talk, 28th International Workshop on Nuclear Theory, Rila Mountains, Bulgaria, June 2009.

The Missing Three-Nucleon Forces: Where Are They?, Invited Talk, national Institute for Nuclear Theory (INT), University of Washington, Seattle, Washington, Program on ‘Effective Field Theories and the Many-Body Problem’, Spring 2009.

The Missing Three-Nucleon Forces: Where Are They?, Invited Talk, 2009 Mardi Gras “Special Symmetries and Ab Initio Methods for Light Nuclei” Workshop, Louisiana State University, February 2009.

Solving a Half-Century-Old Mystery: Why is There Carbon Dating? R. Machleidt, Colloquium, Department of Physics, University of Idaho, January 2009.

The Nuclear Force Problem: Is the Never-Ending Story Coming to an End?, Colloquium, Department of Physics, The University of Arizona, Tucson, Arizona, November 7, 2008.

Chiral Three-Nucleon Forces Beyond Next-to-Next-to-Leading Order, Particle and Nuclear Theory Seminar, Department of Physics, The University of Arizona, Tucson, Arizona, November 6, 2008.

Nuclear Two- and Many-Body Forces from Chiral EFT: Current Status and Open Issues, Invited Talk, 410. WE-Heraeus Seminar, Ab-Initio Nuclear Structure—Where Do We Stand?, Bad Honnef, Germany, July 2008.

Solving a Five Decade-Old Mystery: Why is There Carbon Dating?, Invited Talk, Tenth Annual Meeting of the Northwest Section of the American Physical Society, Portland, Oregon, May 2008.

Nucleon-Nucleon Interactions from Effective Field Theories, Invited Talk, From Quarks to the Nuclear Many-Body Problem, A Conference on Recent Advances in Nuclear Many-Body Physics, Oslo, Norway, May 2008.

Nuclear Two- and Many-Body Forces from Chiral EFT: Current Status and Open Issues, Invited Talk, national Institute for Nuclear Theory (INT), University of Washington, Seattle, Washington, Program on ‘Nuclear Many-Body Approaches for the 21th Century’, Fall 2007.

Recent Advances in the Theory of Nuclear Forces and Its Impact on Microscopic Nuclear Structure, Invited Talk, International Symposium on Exotic States of Nuclear Matter, Catania, Italy, June 2007.

NN and NNN Interactions, Invited Contribution, 2007 Town Meeting for NSAC Long Range Plan, Chicago, January 2007.

Is Intelligent Design Science or Religion? Scientific, Theological and Legal Arguments in the Dover School Board Trial, R. Machleidt, Colloquium, Department of Physics, University of Idaho, December 2006.

Nuclear Forces, Series of four invited lectures, DAE-BRNS Workshop on Physics and Astrophysics of Hadrons and Hadronic Matter, Visva Bharati University, Shantiniketan, West Bengal, India, November 2006.

NN and Many-Body Interactions: Chiral Perturbation Theory, Effective Interactions, Invited Review Talk, SURA Workshop on the Physics of Nucleons and Nuclei, Washington, DC, October 2006.

The Theory of Nuclear Forces: Is the Never-Ending Story Coming to an End?, Invited Plenary Talk, 18th International IUPAP Conference on Few-Body Problems in Physics, Santos, S. Paulo, Brazil, August 2006.

Nuclear Forces from Effective Field Theory: A New Era in Microscopic Nuclear Structure, Invited Talk, Nuclear Structure '06, Conference on Nuclei at the Limits, Oak Ridge National Laboratory, Oak Ridge, Tennessee, July 2006.

The Nuclear Force Problem: Is the Never-Ending Story Coming to an End?, Invited Talk, 25th International Workshop on Nuclear Theory, Institute for Nuclear Research and Nuclear Energy, Bulgarian Academy of Sciences, Rila Mountains, Bulgaria, June 2006.

The nuclear force problem: Is the never-ending story coming to an end? R. Machleidt, Colloquium, Department of Physics, Washington State University, February 2006.

The history of the nuclear force: A long story of hope, error and desperation that finally is coming to a good end, R. Machleidt, Colloquium, Department of Physics, University of Idaho, December 2005.

The Nuclear Force Problem: Is the Never-Ending Story Coming to an End?, Colloquium, Argonne National Laboratory, Argonne, Illinois, November 2005.

The never-ending dream of mankind: The theory of everything, R. Machleidt, University Interdisciplinary Colloquium, University of Idaho, October 2005.

Have We Finally Cracked the Nuclear Force Problem?, Colloquium, TRIUMF, Canada's National Laboratory for Particle and Nuclear Physics, Vancouver, Canada, September 2005.

Nuclear Forces, Series of four invited lectures, 4th International Summer School of the Center for Nuclear Study (CNS), Tokyo, Japan, August 2005.

From the Deuteron to the TeV Region: How Well Do We Know the Nucleon-Nucleon Interaction? Invited Talk, International Workshop "Nuclear Forces and QCD: Never the Twain Shall Meet?", European Center for Theoretical Studies in Nuclear Physics and Related Areas (ECT*), Trento, Italy, June 2005.

Recent Advances in the Theory of Nuclear Forces, Invited Talk, International Symposium on Correlation Dynamics in Nuclei—on the occasion of the 50th anniversary of the Configuration Mixing theory of Arima and Horie, Tokyo, Japan, Jan 31 - Feb 4, 2005.

Towards a Consistent Approach to Nuclear Structure: EFT of Two- and Many-Body Forces, Invited Talk, national Institute for Nuclear Theory (INT), Workshop on 'Nuclear Forces and the Quantum Many-Body Problem', University of Washington, Seattle, Washington, October, 2004.

The Nucleon-Nucleon Interaction at Intermediate Energies, Invited Talk, Caucasian-German School and Workshop on Hadron Physics, Georgian Academy of Science and the Tbilisi State University, Tbilisi, Georgia, August/September 2004.

The Never-Ending Dream of Mankind: The Theory of Everything, After-Dinner Talk, North-West Section Meeting of The American Physical Society, Washington State University, Pullman, Washington, May 2004.

Uses of Nuclear Physics in Medicine, Invited Lecture for the 'Lecture Series in the Sciences', The University of Southern Mississippi, College of Science and Technology and the Hattiesburg Clinic, Hattiesburg, Mississippi, March 2004.

Some Issues Concerning the NN Interaction Based Upon Chiral Effective Field Theory, Invited Talk, Program on Theories of Nuclear Forces and Nuclear Systems, Institute for Nuclear Theory, University of Washington, Seattle, Washington, November 2003.

Nuclear Physics: A Blessing to Mankind, R. Machleidt, Colloquium, Department of Physics, Washington Sate University, September 2003.

Effective Field Theory and the Nucleon-Nucleon Interaction, R. Machleidt, Colloquium, Department of Physics, University of Naples, Naples, Italy, July 2003.

Recent Progress on Chiral NN Potentials, Invited Talk, International Workshop on Recent Advances in the Nuclear Shell Model, European Center for Theoretical Studies in Nuclear Physics and Related Areas (ECT*), Trento, Italy, July 2003.

Recent Progress on Chiral NN Potentials, Invited Talk, Workshop on Chiral Dynamics of Hadrons and Hadrons in the Medium, University of Valencia, Valencia, Spain, June 2003.

The nuclear force problem: Are we seeing the end of the tunnel?, Invited Lead Talk, 17-th Intern. IUPAP Conf. on Few-Body Problems in Physics, Duke University, Durham, North Carolina, June 2003.

Nuclear physics: A Blessing to Mankind, R. Machleidt, Colloquium, Department of Physics, University of Idaho, February 2003.

Chiral Symmetry and the Nucleon-Nucleon Interaction: Recent Progress, Invited Plenary Talk, April Meeting of the American Physical Society, Albuquerque, NM, April 2002.

Accurate NN potential based upon chiral perturbation theory, Invited Talk, ECT* Workshop: Current Theoretical and Experimental Investigations of the Nuclear Many-Body Problem and Applications, Trento, Italy, September 2001.

Developing an accurate NN potential based upon chiral perturbation theory, Invited Talk, INT Workshop on Theories of Nuclear Forces and Few-Nucleon Systems, Seattle, WA, June 2001.

Chiral symmetry and the nucleon-nucleon interaction: developing an accurate NN potential based upon chiral effective field theory, Invited Talk, 7-th Int. Spring Seminar on Nuclear Structure Physics “Challenges of Nuclear Structure”, Maiori (near Naples), Italy, May 2001.

Light-front studies of nuclear correlations, Invited Talk, CEBAF/INT Workshop “Correlations in Nucleons and Nuclei”, University of Washington, Seattle, March 2001.

Nucleon-nucleon potentials, Invited Talk, INT Program “Nuclear Structure for the 21st Century”, University of Washington, Seattle, October 2000.

The nuclear force in the third millennium, Invited Talk, XVIIth European Conference on Few-Body Problems in Physics, Evora, Portugal, September 2000.

Nucleon-nucleon potentials, Invited Talk, 2000 Gordon Research Conference on Photonuclear Reactions, Tilton School, Tilton, New Hampshire, August 2000.

The nuclear force in the third millennium after Jesus Christ: a preview, Invited Talk, Workshop on The Nuclear Standard Model: Ieri, Oggi, Domani; Elba International Physics Center, Elba, Italy, June 2000.

RUPRECHT MACHLEIDT

*Publications***Reviews and Book Chapters**

156. *The nuclear force: Meson theory versus chiral effective field theory*, R. Machleidt, in: Quarks, Nuclei and Stars—Memorial Volume Dedicated to Gerald E. Brown, edited by J. W. Holt, T. T. S. Kuo, K. K. Phua, M. Rho, and I. Zahed (World Scientific, Singapore, 2017) pp. 225-256; and International Journal of Modern Physics E **26**, 1740018 (2017).
155. *Chiral EFT based nuclear forces: Achievements and challenges*, R. Machleidt and F. Sammarruca, Physica Scripta **91**, 083007 (2016).
154. *Chiral Symmetry and the Nucleon-Nucleon Interaction*, R. Machleidt, Symmetry **8**, 26 (2016).
153. *Nuclear forces from chiral effective field theory*, R. Machleidt, in: NN and 3N Interactions, edited by L. Blokhintsev and I. Strakvsky (NOVA, New York, 2014) Chapter 1, pp. 1-42.
152. *Nuclear Forces*, R. Machleidt, Scholarpedia **9**(1), 30710 (2014).
151. *Nuclear Forces*, R. Machleidt, Lecture Series, International Scientific Meeting on Nuclear Physics, La Rábida, Huelva (Spain), September 2012, AIP Conference Proceedings **1541**, 61-103 (2013).
150. *Chiral effective field theory and nuclear forces*, R. Machleidt and D. R. Entem, **Physics Reports** 503, pp. 1-75 (2011).
149. *Chiral symmetry and the nucleon-nucleon interaction*, R. Machleidt, in: From Nuclei to Stars—Festschrift in Honor of Gerald E. Brown, edited by Sabine Lee (World Scientific, Singapore, 2011), Chapter 14, pp. 317-343.
148. *Nuclear Forces from Chiral Effective Field Theory*, R. Machleidt, Lecture Series, Proc. DAE-BRNS Workshop on Physics and Astrophysics of Hadrons and Hadronic Matter, Visva Bharati University, Santiniketan, West Bengal, India (2007); Chapter (54 pages).
147. *The nucleon-nucleon interaction*, R. Machleidt and I. Slaus, Topical Review, J. Phys. G: Nucl. Part. Phys. **27**, R69-R108 (2001).

146. *Brueckner theory of nuclear matter with nonnucleonic degrees of freedom and relativity*, R. Machleidt, Proc. 10th International Conference on Recent Progress in Many-Body Theories, Seattle, Washington, USA, September 1999, Advances in Quantum Many-Body Theory, Vol. **3** (World Scientific, Singapore, 2000) pp. 247-262; Int J. Mod. Phys. **B15**, 1535 (2001).
145. *The Dirac Brueckner Approach*, R. Brockmann and R. Machleidt, in: Int. Rev. Nucl. Phys., Vol. **8**, Nuclear Methods and the Nuclear Equation of State, M. Baldo, ed. (World Scientific, Singapore, 1999) Chapter 2.
144. *Nucleon-nucleon potentials in comparison: physics or polemics?*, R. Machleidt and G. Q. Li, Physics Reports, **242**, 5 (1994).
143. *One-boson-exchange potentials and nucleon-nucleon scattering*, R. Machleidt, in: Computational Nuclear Physics 2 — Nuclear Reactions, K.Langanke, J. A. Maruhn, and S. E. Koonin, eds. (Springer, New York, 1993) Chapter 1.
142. *The meson theory of nuclear forces and nuclear structure*, R. Machleidt, Advances in Nucl. Phys., Vol. **19**, Chapter 2, pp. 189-376 (1989).
141. *The Bonn meson-exchange model for the nucleon-nucleon interaction*, R. Machleidt, K. Holinde, and Ch. Elster, Phys. Reports, Vol. **149**, pp. 1-89 (1987).
140. *The meson theory of nuclear forces and nuclear matter*, R. Machleidt, Proc. Workshop on Relativistic Dynamics and Quark-Nuclear Physics, Los Alamos (NM, USA), 1985, eds. M. Johnson and A. Picklesimer (John Wiley, New York, 1986) pp. 71–174.

Refereed Publications

139. *Consistent, high-quality two-nucleon potentials up to fifth order of the chiral expansion*, D. R. Entem, R. Machleidt, and Y. Nosyk, Phys. Rev. C, submitted.
138. *Chiral EFT and nuclear forces: Are we in trouble?*, R. Machleidt, in : Nuclear Theory in the Supercomputing Era - 2014, edited by A. M. Shirokov and A. I. Mazur (Pacific National University, Khabarovsk, Russia, 2016) p. 251.
137. *How well does the chiral expansion converge in nuclear and neutron matter?*, F. Sammarruca, L. Coraggio, J. W. Holt, N. Itaco, R. Machleidt, and L. E. Marcucci, Proceedings of Science (CD15), 026 (2016).
136. *The nucleon-nucleon interaction up to sixth order in the chiral expansion*, D. R. Entem, N. Kaiser, R. Machleidt, and Y. Nosyk, Proceedings of Science (CD15), 112 (2016).

135. *Spin-polarized neutron-rich matter at different orders of chiral effective field theory*, F. Sammarruca, R. Machleidt, and N. Kaiser, Phys. Rev. C **92**, 054327 (2015).
134. *Dominant contributions to the nucleon-nucleon interaction at sixth order of chiral perturbation theory*, D. R. Entem, N. Kaiser, R. Machleidt, and Y. Nosyk, Phys. Rev. C **92**, 064001 (2015).
133. *Towards order-by-order calculations of the nuclear and neutron matter equations of state in chiral effective field theory*, F. Sammarruca, L. Coraggio, J. W. Holt, N. Itaco, R. Machleidt, and L. E. Marcucci, Phys. Rev. C **91**, 054311 (2015).
132. *Statistical uncertainties of a chiral interaction at next-to-next-to leading order*, J. A. Ekstrom, B. Carlsson, K. Wendt, Ch. Forssen, M. Hjorth-Jensen, R. Machleidt, S. Wild, J. Phys. G: Nucl. Part. Phys. **42**, 034003 (2015).
131. *Peripheral nucleon-nucleon scattering at fifth order of chiral perturbation theory*, D. R. Entem, N. Kaiser, R. Machleidt, and Y. Nosyk, Phys. Rev. C **91**, 014002 (2015).
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