DR. JENS DILLING

MEMBERSHIPS

Since 1997:
German Physical Society

Since 2002:
Canadian Association of Physicists

Since 2008:
American Physical Society

Since 2011:
Canadian Society for Mass Spectrometry

Since 2018:
AAAS American Association for the Advancement of Science

EDUCATION

Ph.D. (Dr. rer. nat. Physics), 2001
University of Heidelberg, Faculty of Physics and Astronomy, Germany. Direct mass measurements of exotic Nuclei with SHIPTRAP and ISOLTRAP. Carried out at ISOLDE/CERN, Switzerland, and GSI Darmstadt, Germany. Supervisor Prof. Heinz-Jürgen Kluge.

Diplom (Physics), 1997
University of Heidelberg, Faculty of Physics and Astronomy, Germany. Investigations of the beta-decay of 37K and 38mK in a laser-trap for neutral atoms. Carried out at TISOL/TRIUMF, Canada. Supervisor Prof. Otto Häuser & Prof. Heinz-Jürgen Kluge.

EMPLOYMENT HISTORY

Oak Ridge National Lab., Director of Strategic Planning
2021 – Present
TRIUMF, Associate Laboratory Director Physical Sciences
2016 – 2021
TRIUMF, Associate Laboratory Director (Interim) Physical Sciences
2015 – 2016
TRIUMF, Deputy Head Science Division
2011 - 2015
TRIUMF, Head Dep. Nuclear Physics/ISAC Science
2009 – 2016
TRIUMF, Deputy Head Nuclear Physics/ISAC Science
2007 – 2009
University of British Columbia, Adjunct Professor, Department of Physics and Astronomy
2004 – Present
TRIUMF Science Division, Research Scientist IV, equiv. Full Professor
2009 – 2021
TRIUMF Science Division, Research Scientist III, equiv. Associate Professor
2003 – 2009
TRIUMF Science Division, Research Scientist II, equiv. Assistant Professor
2001 - 2003

AWARDS AND HONORS

- **2012** – Invitation by the Nobel Foundation to the Nobel Symposium NS152 on Physics with Radioactive Beams
- **2013** – Fellow of the American Physical Society
- **2013** – Vogt Medal for Subatomic Physics of the Canadian Association of Physicists for Outstanding Contributions in Nuclear Physics
- **Aug. 2014 – Aug. 2015** – Visiting EMMI-Professor at the Max-Planck Institute for Nuclear Physics & University of Heidelberg, Germany
- **2015** – GENCO Scientific Achievement Award (Membership Award) of GSI Darmstadt and the European Exotic Nuclei Community
- **2016** – Canadian National Research Council (NRC) Outstanding Service Award Medal for contributions to international and national committees for the Union of International Pure and Applied Physics (IUPAP)
- **2016** – Francis Pipkin Award of the American Physical Society for '*Exceptional research accomplishments by a scientist in the interdisciplinary area of precision measurement and fundamental constants*'
- **2020** – Rutherford Memorial Medal of the Royal Society of Canada for '*Breakthrough discoveries in the field of experimental nuclear physics studying the fine details of the interactions of the atomic building blocks, the nucleons'*

BOARDS AND COMMITTEES

- **2004 – 2009** Member of the TRIUMF Experimental Evaluation Committee (EEC)
- **2005 – 2010** Member IUPAP (International Union of Pure and Applied Physics) C2 commission for Symbols, Units, Nomenclature, Atomic Masses & Fundamental Constants (SUNAMCO)
- **2011 – 2014** Secretary IUPAP (International Union of Pure and Applied Physics) C2 commission for Symbols, Units, Nomenclature, Atomic Masses & Fundamental Constants (SUNAMCO)
- **2005** TRIUMF user group chair (2005), elected
- **2005** Member of the NSERC Long range planning committee for SAP Canada: 'Perspectives on Subatomic Physics in Canada 2006-2016
- **2007 – 2010** Member of the SNOLAB Experimental Advisory Committee
- **2008 – 2014** Member of the Editorial Board of Hyperfine Interactions (Springer)
- **2009 – 2018** Member Experimental Systems Advisory Committee (ESAC) for the Facility for Rare Isotope Beams (FRIB) at Michigan State University.
- **2009 – 2012** Member of the Program Advisory Committee of the Holifield Radioactive Ion Beam Facility at Oak Ridge National Laboratory
- **2010** Chair of the international KEK-TRIUMF review for Ultra Cold Neutron-EDM
- **2011 – 2013** Chair of the CAP Division of Nuclear Physics
- **2009 – 2019** Board of Directors Canadian Institute of Nuclear Physics
- **2011 – 2014** Member of the U of Victoria Electron Linear Accelerator Scientific Steering Committee
- **2012** Member of the DOE review of ORISS at Oak Ridge National Laboratory
- **2013 – 2015** President Canadian Institute of Nuclear Physics
- **2012 – 2018** Chair SNOLAB Institute Scientific and Technical Review Committee
- **2013 – Present** Member Program Advisory Committee RISP Facility, South Korea
- **2013 – Present** Member FAIR Expert Committee Experiments (ECE)
- **2019 – Present** Chair of the FAIR Expert Committee Experiments (ECE)
- **2013 – Present** Member of the Editorial Board of Journal of Physics G: Nuclear and Particle Physics
- **2014 – 2019** Member of the Editorial Board of Nuclear Physics News International

- **2014 – 2018** Member of the Executive Board of the CAP, Director of International Affairs
- **2014 – 2018** Member of the Executive Board of the CAP, Director of International Affairs
- **2014 – 2018** Member APS DNP Program committee
- **2015** Member APS DNP Program committee
- **2015** Member NSF Review Committee MSU-National Superconducting Cyclotron Laboratory
- **2015 – 2021** Member of the Selection Committee for the CAP Erich Vogt Medal
- **2016 – 2021** Member of the Board of the Canadian Particle Astrophysics Research Centre, Queen's University
- **2016 – 2020** Member of the Selection Committee for the APS Francis Pipkin Award
- **2018 – 2020** Member of the Selection Panel for the DOE Quantum Information System Grant Awards in HEP
- **2020 – Present** Member of the Editorial Board of APS Physical Review C: Nuclear Physics
- **2021 –Present** Member Program Advisory Committee RIKEN Nuclear Physics Program

CONFERENCE AND WORKSHOP CHAIR

- **2006** Chair of the International Conference of Trapped Charged Particles and Fundamental Physics TCP06. (Sept. 2006 in Parksville, B.C., Canada)
- **2007** Co-Chair of the ECT* International Workshop on Experiment Theory Intersections in Modern Nuclear Structure (April 2007 in Trento, Italy)
- **2007** Co-Chair of the International Workshop of Electron drivers for Radioactive Beams eRIBs 2007. (Oct. 2007, Newport News, VA, USA)
- **2010** Co-Chair of the International Workshop of Stopping and Manipulation of Ions SMI-10 (April 2010, Stanford University, CA, USA)
- **2010** Chair of the International Nuclear Physics Conference INPC 2010 at UBC Vancouver, B.C., Canada (July 4-9, 2010, University of British Columbia, BC, Canada)
- **2016** Chair of the APS DNP Fall Meeting, Vancouver, BC, Canada
- **2018** Co-Chair of the International Conference of Trapped Charged Particles and Fundamental Physics. (Sept. 2018 in Traverse City, MI, USA)
- **2020** Co-Chair of the TRIUMF-UW-CENPA Developing New Directions Workshop (Moore Foundation), TRIUMF virtual workshop (Nov 4-6, 2020).

PUBLICATION RECORD

Books and non-peer reviewed publications and contributions:

- Editor of (together with G. Gwinner, J. Thomson, and M. Comyn):
  TCP 2006: Proceedings of the 4th International Conference on Trapped Charged Particles and Fundamental Physics (TCP 2006), Springer-Verlag Berlin and Heidelberg and special issue of Hyperfine Interaction

- Editor of:
  IOP Journal of Physics: Conference Series Volume 312, 2011
  Proceedings of the International Nuclear Physics Conference 2010 (INPC2010)
  4–9 July 2010, University of British Columbia, Vancouver, Canada

- Editor of (together with L. Merminga and R. Kruecken)
  Springer Hyperfine Interaction, Volume 225, Issue 1 (2014), Laboratory Portrait ISAC at TRIUMF.

INVITED CONFERENCE/WORKSHOP TALKS, SEMINARS, AND COLLOQUIA

- A total of over 150 invited talks and colloquia at international conference and universities.

PEER-REVIEWED PUBLICATIONS AND CONFERENCE PROCEEDINGS

A total of over 150 peer reviewed publications and conference proceedings, with a total citation of over 7100 and an h-index of 44 in June. 2022. The review article: **Precision atomic physics techniques for nuclear physics with radioactive beams (Physica Scripta, Volume 2013, T152)** has over 10.000 downloads.

1. Magneto-optic Trapping of beta -Decaying ^{38m}K, ^{37}K from an on-line Isotope Separator
   Phys. Rev. Lett. 79, 375 (1997)
   J. A. Behr; A. Gorelov; T. Swanson; O. Häusser; K. P. Jackson; M. Trinczek; U. Giesen; J. M. D'Auria; R. Hardy; T. Wilson; P. Choboter; F. Leblond; L. Buchmann; M.; Dombsky; C. D. P. Levy; G. Roy; B. A. Brown; and J. Dilling

2. Beta-decay experiments of neutral atoms in a magneto-optical trap
   Hyperfine Interactions 115 159-164 (1998)
   Dilling, J.; Behr, J.A.; Gorelov, A.; Swanson, T.; Häusser, O.; Melconian, D.; Jackson, K.P.; Trinczek, M.; Giesen, U.; D'Auria, J.M.

3. Mass measurements of radioactive isotopes using the ISOLTRAP spectrometer
   World Scientific Conf.Proc. 'Electroweak Physics' 324-329 (1999)
   J. Dilling; F. Herfurth; H.-J. Kluge; A. Kohl; E. Lamour; G. Marx; S. Schwarz; G. Bollen; A. Kellerbauer; and R.B. Moore

4. The SHIPTRAP project: A capture and storage facility at GSI for heavy radionuclides from SHIP
   Hyperfine Interactions 127, 491-496 (2000)
   Dilling, J.; Ackermann, D.; Bernard, J.; Hessberger, F.P.; Hofmann, S.; Hornung, W.; Kluge, H.-J.; Lamour, E.; Maier, M.; Mann, R.; Marx, G.; Moore, R.B.; Münzenberg, G.; Quint, W.; Rodriguez, D.; Schädel, M.; Schönfelder, J.; Sikler, G.; Toader, C.; Vermeeren, L.; Weber, C.; Bollen, G.; Engels, O.; Habs, D.; Thirolf, P.; Backe, H.; Dretzke, A.; Lauth, W.; Ludolphs, W.; Sewtz, M.

5. Beta–neutrino correlation experiments on laser trapped ^{38m}K, ^{37}K
   Hyperfine Interactions 127, 373-380 (2000)
   Gorelov, A.; Behr, J.A.; Melconian, D.; Trinczek, M.; Dubé, P.; Häusser, O.; Giesen, U.; Jackson, K.P.; Swanson, T.;

D'Auria, J.M.; Dombsky, M.; Ball, G.; Buchmann, L.; Jennings, B.; Dilling, J.; Schmid, J.; Ashery, D.; Deutsch, J.; Alford, W.P.; Asgeirsson, D.; Wong, W.; Lee, B.

6. Mass Measurements of $^{114-124,130}$Xe with the ISOLTRAP Penning Trap Spectrometer
   Hyperfine Interactions 132, 329-333 (2001)
   Dilling, J.; Audi, G.; Beck, D.; Bollen, G.; Herfurth, F.; Kellerbauer, A.; Kluge, H.-J.; Lunney, D.; Moore, R.B.; Scheidenberger, C.; Schwarz, S.; Sikler, G.; Szerypo, J

7. Status of the SHIPTRAP Project: A Capture and Storage Facility for Heavy Radionuclides from SHIP
   Hyperfine Interactions 132, 459-464 (2001)
   Marx, G.; Ackermann, D.; Dilling, J.; Hessberger, F.P.; Hoffmann, S.; Kluge, H.-J.; Mann, R.; Münzenberg, G.; Qamhieh, Z.b; Quint, W.b; Rodriguez, D.b; Schädel, M.; Schönfelder, J.; Sikler, G.; Toader, C.; Weber, C.; Engels, O.; Habs, D.; Thirolf, P.; Backe, H.; Dretzke, A.; Lauth, W.; Ludolphs, W.; Sewtz, M.

8. Improvement of the Applicability, Efficiency, and Precision of the Penning Trap Mass Spectrometer ISOLTRAP
   Hyperfine Interactions 132, 507-511 (2001)
   Kellerbauer, A.; Bollen, G.; Dilling, J.; Henry, S.; Herfurth, F.; Kluge, H.-J.; Lamour, E.; Lunney, D.; Moore, R.B.; Sheidenberger, C.; Schwarz, S.; Sikler, G.; Szerypo, J

9. A linear radiofrequency ion trap for accumulation, bunching, and emittance improvement of radioactive ion beams
   Nuclear Instruments and Methods in Physics Research A 469 (2), 254-275 (2001)
   Herfurth, F.; Dilling, J.; Kellerbauer, A.; Bollen, G.; Henry, S.; Kluge, H.-J.; Lamour, E.; Lunney, D.; Moore, R.B.; Scheidenberger, C.; Schwarz, S.; Sikler, G.; Szerypo, J

10. A Physics Case for SHIPTRAP: Measuring the Masses of Transuranium Elements
    Hyperfine Interactions 132, 491-495 (2001)
    Dilling, J.; Ackermann, D.; Heßberger, F. P.; Hofmann, S.; Kluge, H.-J.; Marx, G.; Münzenberg, G.; Schönfelder, J.; Sikler, G.; Sobiczewski, A.; Toader, C.; Weber, Chr.

11. Stopping, Trapping and Cooling of Radioactive Fission Fragments in an Ion Catcher Device
    Hyperfine Interactions 132, 517-521 (2001)
    Maier, M.; Boudreau, C.; Buchinger, F.; Clark, J.A.; Crawford, J.E.; Dilling, J.; Fukutani, H.; Gulick, S.; Lee, J.K.P.; Moore, R.B.; Savard, G.; Schwartz, J.; Sharma, K.S

12. Direct mass measurements of neutron-deficient xenon isotopes with the ISOLTRAP mass spectrometer
    Nuclear Physics A 701 (1-4), 520-523 (2002)
    Dilling, J.; Audi, G.; Beck, D.; Bollen, G.; Henry, S.; Herfurth, F.; Kellerbauer, A.; Kluge,H.-J.; Lunney, D.; Moore, R.B.; Scheidenberger, C.; Schwarz, S.; Sikler, G.; Szerypo, J.

13. A linear radiofrequency quadrupole ion trap for the cooling and bunching of radioactive ion beams
    Nuclear Physics A 701 (1-4), 565-569 (2002)
    Kellerbauer, A.; Bollen, G.; Dilling, J.; Henry, S.; Herfurth, F.; Kluge, H.-J.; Lamour, E.; Moore, R.B.; Scheidenberger, C.; Schwarz, S.; Sikler, G.; Szerypo, J.

14. Extension of Penning-trap mass measurements to very short-lived nuclides
    Nuclear Physics A 701 (1-4) 516-519 (2002)
    Herfurth, F.; Audi, G.; Beck, D.; Bollen, G.; Dilling, J.; Henry,S.; Kellerbauer, A.; Kluge, H.-J.; Kolhinen, V.; Lunney, D.;Moore, R.B.; Scheidenberger, C.; Schwarz, S.; Sikler,G.; Szerypo, J.

15. Accurate masses of neutron-deficient nuclides close to Z=82
    Nuclear Physics A 701 (1-4) 533-545 (2002)
    Schwarz, S.; Ames, F.; Audi, G.; Beck, D.; Bollen, G.;De Coster, C.; Dilling, J.; Engels, O.; Fossion, R.;Garcia Ramos, J.-E.; Henry, S.; Herfurth, F.; Heyde, K.; Kellerbauer, A.; Kluge, H.-J.; Kohl, A.; Lamour, E.; Lunney, D.; Martel, I.; Moore, R.B.; Oinonen, M.; Raimbault-Hartmann, H.; Scheidenberger, C.; Sikler, G.; Szerypo, J.; Weber, C.

16. Breakdown of the Isobaric Multiplet Mass Equation at A = 33, T = 3/2
    Phys. Rev. Lett. 87, 142501 (2002)
    F. Herfurth; J. Dilling; A. Kellerbauer; G. Audi; D. Beck; G. Bollen; H.-J. Kluge; D. Lunney; R. B. Moore; C. Scheidenberger; S. Schwarz; G. Sikler; J. Szerypo

17. Novel Search for Heavy nu Mixing from the beta Decay of K Confined in an Atom Trap
    Phys. Rev. Lett. 90, 012501 (2003)
    M. Trinczek, A. Gorelov, D. Melconian, W. P. Alford, D. Asgeirsson, D. Ashery, J. A. Behr, P.G. Bricault, J.M. D'Auria, J. Deutsch, J. Dilling, M. Dombsky, P. Dube, S. Eaton, J. Fingler, U. Giesen, S. Gu, O. Hausser, K. P. Jackson, B. Lee, J. H. Schmid, T. J. Stocki, T. B. Swanson, and W.Wong

18. First on-line test of SHIPTRAP
    Nuclear Instruments and Methods in Physics Research 204, 482-486 (2003)
    Sikler G, Ackermann D, Attallah F, Beck D, Dilling J, Elisseev SA, Geissel H, Habs D, Habs D, Heinz S, Herfurth F, Hessberger F, Hofmann S, Kluge HJ, Kozhuharov C, Marx G, Mukherjee M, Neumayr J, Plass WR, Quint W, Rahaman S, Rodriguez D, Scheidenberger C, Tarisien M, Thirolf P, Varentsov

19. The proposed TITAN facility at ISAC for very precise mass measurements on highly charged short-lived isotopes
    Nuclear Instruments and Methods in Physics Research B 204, 492-496 (2003)
    J.Dilling; P. Bricault; M. Smith; H. -J. Kluge and the TITAN collaboration

20. The Mass of ^{22}Mg
    Phys. Rev. Lett. 93, 150801 (2004)
    M. Mukherjee, A. Kellerbauer, D. Beck, K. Blaum, G. Bollen, F. Carrel, P. Delahaye, J. Dilling, S. George, C. Gue´naut, F. Herfurth, A. Herlert, H.-J. Kluge, U. Koster, D. Lunney, S. Schwarz, L. Schweikhard, and C. Yazidjian

21. Direct mass measurements of neutron-deficient xenon isotopes using the ISOLTRAP mass spectrometer
    European Physical Journal A 22, 163-171 (2004)
    J. Dilling, F. Herfurth, A. Kellerbauer, G. Audi, D. Beck, G. Bollen, H.-J. Kluge, R.B. Moore, C. Scheidenberger, S. Schwarz, G. Sikler, and the ISOLDE Collaboration

22. Scalar Interaction Limits from the beta-nu Correlation of Trapped Radioactive Atoms
    Phys. Rev. Lett. 94, 142501 (2005)
    A. Gorelov, D. Melconian, W. P. Alford, D. Ashery, G. Ball, J. A. Behr, P. G. Bricault, J. M. D'Auria, J. Deutsch, J. Dilling, M. Dombsky, P. Dube´, J. Fingler, U. Giesen, F. Gluck, S. Gu,O. Hausser, K. P. Jackson, B. K. Jennings, M. R. Pearson,T. J. Stocki, T. B. Swanson, and M. Trinczek

23. A high frequency MOSFET driver for the TITAN facility at TRIUMF
    Proc. 15th IEEE Int. Pulsed Power Conf., Monterey, CA, June 13–17, 2005 (IEEE, DOI 10.1109 / PPC.2005.300554, 2005) p.178
    M.J. Barnes, G.D. Wait, J. Dilling, J.V. Vaz, L. Blomeley, O. Hadary and M.J. Smith

24. A high-current EBIT for charge-breeding of radionuclides for the TITAN spectrometer
    European Phys. Journal A 25 (2005) 1.63
    G. Sikler, J. R. Crespo López-Urrutia, J. Dilling, S. Epp, C. J. Osborne and J. Ullrich

25. Nuclear Charge Radius of ^{11}Li: Halo Neutron – Core Interactions
    Phys. Rev. Lett. 96, 033002 (2006)
    R. Sanchez, W. Nortershauser, G. Ewald, D. Albers J. Behr, P. Bricault, B.A. Bushaw, A. Dax, J. Dilling, M. Dombsky, G.W.F. Drake, S. G¨otte, R. Kirchner, H.-J. Kluge, Th. Kuhl, J. Lassen, C.D.P. Levy, M. Pearson, E. Prime, V. Ryjkov, A. Wojtaszek, Z.-C. Yan, and C. Zimmermann

26. Weak interaction symmetries with atom traps
    European Phys. Journal A 25 (2005) 1.685
    J. A. Behr, A. Gorelov, D. Melconian, M. Trinczek, W. P. Alford, D. Ashery, P. G. Bricault, L. Courneyea, J. M. D'Auria, J. Deutsch, J. Dilling, M. Dombsky, P. Dubé, F. Glück, S. Gryb, S. Gu, O. Häusser, K. P. Jackson, B. Lee, A. Mills, E. Paradis, M. Pearson, R. Pitcairn, E. Prime, D. Roberge and T. B. Swanson

27. Nuclear Charge Radius of ^{11}Li
    Hyperfine Interactions 171 181-188 2006
    R. Sanchez, W. Nörtershäuser, G. Ewald, D. Albers J. Behr, P. Bricault, B.A. Bushaw, A. Dax, J. Dilling, M. Dombsky, G.W.F. Drake, S. G¨otte, R. Kirchner, H.-J. Kluge, Th. Kuhl, J. Lassen, C.D.P. Levy, M. Pearson, E. Prime, V. Ryjkov, A. Wojtaszek, Z.-C. Yan, and C. Zimmermann

28. Mass measurements on highly charged radioactive ions, a new approach to high precision with TITAN
    International Journal of Mass Spectrometry, 251, 198 (2006)
    J. Dilling, R. Baartman, P. Bricault, M. Brodeur, L. Blomeley, F. Buchinger, J. Crawford, J.R. Crespo López-Urrutia, P. Delheij, M. Froese, G.P. Gwinner, Z. Ke, J.K.P. Lee, R.B. Moore, V. Ryjkov, G. Sikler, M. Smith, J. Ullrich, J. Vaz and the TITAN collaboration

29. The TITAN mass measurement facility at TRIUMF-ISAC
    Hyperfine Interactions 173 (1-4) 123-132 2006
    P. Delheij, L. Blomeley, M. Froese, G. Gwinner, V. Ryjkov, M. Smith and J. Dilling

30. First tests of the TITAN digital RFQ beam cooler and buncher
    Hyperfine Interactions 173 (1-4) 171-180 2006
    Mathew Smith, Laura Blomeley, Paul Delheij and Jens Dilling

31. A cooler ion trap for the TITAN on-line trapping facility at TRIUMF
    Hyperfine Interactions 173 (1-4) 103-111 2006
    Z. Ke, W. Shi, G. Gwinner, K. Sharma, S. Toews, J. Dilling, V. L. Ryjkov and the TITAN Collaboration

32. Electron capture branching ratios for the odd-odd intermediate nuclei in double-beta decay using the TITAN ion trap facility
    Can. J. Phys. 85, 57 (2007)
    D. Frekers, J. Dilling and I. Tanihata

33. ISOLTRAP: an on-line Penning trap for mass spectrometry on short-lived nuclides
    Eur. Phys. J. A 35, 1-29 (2008)
    M. Mukherjee, D. Beck, K. Blaum, G. Bollen, P. Delahaye, J. Dilling, S. George, C. Guenaut, F. Herfurth, A. Herlert, A. Kellerbauer, H.-J. Kluge, U. Koster, D. Lunney, S. Schwarz, L. Schweikhard, and C. Yazidjian

34. Direct mass measurement of the four-neutron halo nuclide ^{8}He
    Phys. Rev. Lett. 101, 012501 (2008)
    V.L. Ryjkov, M. Brodeur, T. Brunner, M. Smith, R. Ringle, P. Delheij, F. Ames, P. Bricault, M. Dombsy, and J. Dilling

35. First Penning trap mass measurements of the exotic halo nucleus ^{11}Li
    Phys. Rev. Lett. 101, 202501 (2008)
    M. Smith, M. Brodeur, T. Brunner, S. Ettenauer, A. Lapierre, R. Ringle, V. L., Ryjkov, F. Ames, P. Bricault, G. W. F. Drake, P. Delheij, D Lunney, and J. Dilling

36. An electron beam ion trap for the NSCL re-accelerator
    Nuclear Instruments and Methods in Physics Research B 266, 4466 (2008)
    S. Schwarz, G. Bollen, J.R. Crespo López-Urrutia, J. Dilling, M. Johnson, O. Kester, M. Kostin, F. Marti, C. Wilson and P. Zavodszky

37. A high current electron ion beam ion trap as a charge breeder for the reacceleration of rare isotopes at the NSCL
    Review of Scientific Instruments 79, 02A706 (2008)
    S. Schwarz, G. Bollen, J.R. Crespo López-Urrutia, J. Dilling, M. Johnson, O. Kester, M. Kostin, F. Marti, C. Wilson and P. Zavodszky

38. Electron capture branching ratio measurements in an ion trap for double beta decay experiments at TITAN
    Nuclear Instruments and Methods in Physics Research B 266 4643 (2008).

T. Brunner, M. Brodeur, C. Champagne, D. Frekers, R. Krucken, A. Lapierre, P. Delheij, R. Ringle, V. Ryjkov, M. Smith, I. Tanihata, and J. Dilling

39. High Precision Penning trap mass measurements of ^{9,10}Be and the one-neutron halo nuclide ^{11}Be.
Physics Letters B 675, 170–174 (2009).
R. Ringle, M. Brodeur, T. Brunner, S. Ettenauer, M. Smith, A. Lapierre, V.L. Ryjkov, P. Delheij, G.W.F. Drake, J. Lassen, D. Lunney, and J. Dilling

40. New mass measurement of ^{6}Li and ppb-level systematic studies of the Penning trap mass spectrometer TITAN
Phys. Rev. C 80, 044318 (2009).
M. Brodeur, T. Brunner, C. Champagne, S. Ettenauer, M. Smith, A. Lapierre, R. Ringle,V. L. Ryjkov, G. Audi, P. Delheij, D. Lunney, and J. Dilling

41. Report on recent activities at the TITAN mass spectrometer at ISAC/ TRIUMF
Hyperfine Interaction 196 1 219-223 (2010).
Jens Dilling for the TITAN collaboration

42. Precision ground state mass of 12Be and an isobaric multiplet mass equation (IMME) extrapolation for 2+ and 0+2 states in the T = 2, A = 12 multiplet
Phys. Rev. C 80, 024314 (2010).
S. Ettenauer, M. Brodeur, T. Brunner, A. T. Gallant, A. Lapierre, R. Ringle, M. R. Pearson, P. Delheij, J. Lassen, D. Lunney, and J. Dilling

43. EBIS/T charge breeding for intense rare isotope beams at MSU
IOP Journal of Instrumentation 5 C10002 (2010).
Schwarz, S., Bollen, G., Kester, O., Kittimanapun, K, Lapierre, A., J. R. Crespo, Dilling, J., Ames, F., Ahle, L. E., Beiersdorfer, P., Marrs, R. E., Beene, J. R., Mendez, A. J., Stracener, D. W., Lindroos, M., Wenander, F.

44. MATS and LaSpec: High-precision experiments using ion traps and lasers at FAIR
European Physical Journal-Special Topics 183, 1-123 (2010).
Rodriguez, D., Blaum, K., Nortershauser W., and Dilling J., and 99 others

45. The TITAN EBIT charge breeder for mass measurements on highly charged short-lived isotopes - First online operation
Nuclear Instruments and Methods A 624, 54 (2010).
A. Lapierre, M. Brodeur, T. Brunner, S. Ettenauer, A.T. Gallant, V. Simon, M. Good, M.W., Froese, J.R. Crespo López-Urrutia, P. Delheij, S. Epp, R. Ringle, S. Schwarz, J. Ullrich and J. Dilling

46. TITAN EBIT- charge breeding of radioactive isotopes for high precision mass measurements
Journal of Instrumentation 9 C08009 (2011).
A.T. Gallant M. Brodeur T. Brunner S. Ettenauer M. Good A. Lapierre R. Ringle V.V. Simon P. Delheija and J. Dilling

47. In-trap decay spectroscopy for 2vββ decay experiments
Hyperfine Interactions 199 (1-3), 191-199 (2011).
T. Brunner, M. Brodeur, P. Delheij, S. Ettenauer, D. Frekers, A.T. Gallant, R. Krücken, A. Lapierre, D. Lunney, R. Ringle, V.V. Simon and J. Dilling

48. Precision mass measurements of neutron halo nuclei using the TITAN Penning trap
Hyperfine Interactions, 199 (1-3), 167-173 (2011).
M. Brodeur, T. Brunner, S. Ettenauer, A. Gallant, V. Simon, M. Smith, A. Lapierre, E. Mané, R. Ringle, V. Ryjkov, S. Bacca, P. Delheij, D. Lunney, M. Pearson, and J. Dilling

49. Design of a β-detector for TITAN-EC and the first electron-capture branching ratio measurement in a Penning trap
Journal of Physics: Conference Series 312, 072006 (2011).
T. Brunner, M. Brodeur, S. Ettenauer, A. T. Gallant, A. Lapierre, R. Ringle, S. K. L. Sjue, P. Delheij, D. Frekers, R. Krücken, K. Zuber, and J. Dilling

50. A cooler Penning trap for the TITAN on-line trapping facility
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143. Towards high precision mass measurements of Highly Charged Ions using the Phase-Imaging Ion-Cyclotron-Resonance technique at TITAN
Hyperfine Interaction 24, 241 (2020)
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Hyperfine Interaction 8, 241 (2020)

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NIM A 1000, 165239 (2021)
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Phys. Rev. C 103, 025811 (2021)
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149. Examining the nuclear mass surface of Rb and Sr isotopes in the A~ 104 region via precision mass measurements
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150. Commissioning of a multi-purpose offline ion source at the TITAN experiment
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152. Commissioning and performance of TITAN's Multiple-Reflection Time-of-Flight Mass-Spectrometer and isobar separator
NIM A 1018, 165823 (2021)
MP Reiter, S Ayet San Andres, J Bergmann, T Dickel, J Dilling, A Jacobs, AA Kwiatkowski, WR Plaß, C Scheidenberger, D Short, C Will, C Babcock, E Dunling, A Finlay, C Hornung, C Jesch, Renee Klawitter, B Kootte, D Lascar, E Leistenschneider, T Murböck, SF Paul, M Yavor

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Journal of Physics G: Nuclear and Particle Physics 49, 15104 (2021)
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