

Curriculum vitae for Jon Petter Omtvedt as per April 2018

ROLE IN PROJECT

Project manager Collaborator

PERSONAL INFORMATION

Family name, First name: **Omtvedt, Jon Petter**

Date of birth: **28th February 1962**

Sex: Male

Nationality: Norwegian

URL for personal web site:

EDUCATION

1995 PhD: **Disputation date: 15th May 1995.**
Department of Chemistry, University of Oslo, Norway

1989 Master
Department of Chemistry, University of Oslo, Norway

CURRENT AND PREVIOUS POSITIONS

2002-today Professor
Department of Chemistry, University of Oslo, Norway

2005-2013 Employed as a "reverse Prof. II" in a 5% position at the Institute for Energy Technology (IFE) at Kjeller outside Oslo.

1995-2002 1st amanuensis (associate professor)
Department of Chemistry, University of Oslo, Norway

MOBILITY (*research stays abroad lasting more than three months*) (if applicable)

2000-2001 13 month sabbatical at Lawrence Berkeley National Laboratory working in Prof. Darleane Hoffman's group. Funded by UiO and the Norwegian Research Council

1990-today About 6-10 weeks per year has been spent at international research labs to participate in joint experiments (mostly on SHEs) (OSIRIS in Studsvik, LBNL in Berkeley, PSI in Villigen, GSI in Darmstadt, TRIGA in Mainz, RIKEN in Wako).

SUPERVISION OF GRADUATE STUDENTS AND RESEARCH FELLOWS (if applicable)

1995-today 17 + 1 on-going MSc (as main supervisor), 4 MSc (cosupervisor), 4 + 1 on-going PhD, 6 post docs. Department of Chemistry, University of Oslo, Norway

TEACHING ACTIVITIES (if applicable)

1989-today Teaching radiochemistry courses and undergraduate chemistry courses at Department of Chemistry, UiO.

2002-today Responsibility for organizing teaching of all Nuclear and Radiochemistry courses, including radiation protection, at Department of Chemistry, UiO.

ORGANISATION OF SCIENTIFIC MEETINGS (if applicable)

2005 Hosted a 3-day workshop sponsored by the European Science Foundation (ESF) on the Chemistry of the Transactinide Elements in October in Oslo, Norway, 30 participants.

INSTITUTIONAL RESPONSIBILITIES (if applicable)

2005-today Head of the Nuclear Chemistry Group (until 2015 the Nuclear Chemistry Section) at Department of Chemistry, UiO

2005-2011 Head of the UiO Centre for Accelerator Based Research and Energy Physics (Norwegian acronym "SAFE"), Faculty of Mathematics and Natural Sciences, UiO

2012-today Responsible for radiation protection, including training, at the Department of Chemistry, UiO

2010-2015 Member of the Department of Chemistry Group-Leader team

COMMISSIONS OF TRUST (if applicable)

- 2016-today* Chairman of the Nuclear and Radiochemistry Division of EuCheMS (the European Chemical Society)
- 2011-today* Norwegian Representative since 2011, on behalf of the Norwegian Chemical Society, to the Division of Nuclear and Radiochemistry at EuCheMS
- 2018-today* Chairman of the Norwegian Network for Hydrometallurgy
- 2016-today* Vice-chairman of the European network for Nuclear and Radiochemistry Education and Training

MEMBERSHIPS OF SCIENTIFIC SOCIETIES (if applicable)

- 2008-today* Member of American Chemical Society
- 2011-today* Member of Norwegian Chemical Society

MAJOR COLLABORATIONS (if applicable)

- 2004-today* TASCA collaboration at GSI in Darmstadt, Germany. Participated right from the planning stage in this collaboration, which built and is operating the gas-filled separator TASCA dedicated to SHE chemistry and physics research. Collaboration is headed by Prof. C. Düllmann (Johannes Gutenberg-Universität, Institut für Kernchemie, Mainz, Germany)

CAREER BREAKS (if applicable)

- Exact dates Please indicate the reason and duration in months.

Track record

My publication list include more than 59 journal publications, in addition to a large number of talks and contributions to international workshops and conferences. The most recent (since 2006) publications are listed below:

- J1 P. Hoff, B. Ekstøm, B. Fogelberg, J.P. Omtvedt: "The decay of ^{84}As ", *Z. Phys A* 338, 285 (1991).
- J2 J.P. Omtvedt, P. Hoff, B. Fogelberg: "The decay of ^{85}As ", *Z. Phys A* 339, 249 (1991).
- J3 J.P. Omtvedt, P. Hoff, M. Hellstöm, L. Spainer, B. Fogelberg: "Gamma ray and delayed neutron branching data for the new or little know isotopes $^{84,85}\text{Ge}$ and $^{84,85}\text{As}$ ", *Z. Phys. A* 338, 241 (1991).
- J4 H. Grawe, P. Hoff, J.P. Omtvedt, K. Steffensen, R. Eder, H. Haas, H. Ravn, and the ISOLDE Collaboration: "Study of the β /EC decay of the neutron deficient Nuclei $^{76,78}\text{Sr}$ and ^{79}Y ". *Z. Phys A* 341, 247 (1992).
- J5 E. Hagebø, P. Hoff, O.C. Jonsson, E. Kugler, J.P. Omtvedt, H.L. Ravn, K. Steffensen: "New production systems at ISOLDE". *Nucl. Instr. and Meth. B* 70 165 (1992).
- J6 B. Fogelberg, M. Hellström, D. Jerrestam, H. Mach, J. Blomqvist, A. Kerek, L. O. Norlin, J. P. Omtvedt: "Detailed spectroscopy of the doubly closed shell nucleus ^{132}Sn : First observation of octopole collectivity" *Phys. Rev. Lett.* 73 2413 (1994).
- J7 H. Mach, B. Fogelberg, M. Hellström, D. Jerrestam, A. Kerek, L.O. Norlin, J.P. Omtvedt, K.I. Erokhina, and V.I. Isakov: "Detailed spectroscopy of doubly-magic ^{132}Sn and it's neighbours; Perspective for further studies at PIAFE", Invited talk at the International Symposium on Physics of Unstable Nuclei, Niigata, Japan, Oct. 31 - Nov. 3, 1994. *Nucl. Phys. A* 588, 179c (1995).
- J8 B. Fogelberg, M. Hellström, D. Jerrestam, H. Mach, J. Blomqvist, A. Kerek, L.O. Norlin, J.P. Omtvedt: "The Doubly Closed Shell Nucleus ^{132}Sn : Collectivity and p h States", *Physica Scripta.* T56, 79 (1995).
- J9 J.P. Omtvedt: "Yggdrasil - a program for fast, interactive $\gamma\gamma$ coincidence analysis on small computers (PCs)", *Nucl. Instr. Methods A* 354 511 (1995).
- J10 H. Mach, D. Jerrestam, B. Fogelberg, M. Hellström, J.P. Omtvedt, K. I. Erokhina, and V. I. Isakov: "Structure of the p-h nucleus ^{132}Sb ", *Phys. Rev. C* 51, 500 (1995).
- J11 J.P. Omtvedt, B. Fogelberg, H. Mach, D. Jerrestam, M. Hellström, K. I. Erokhina, and V. I. Isakov: "The effective charges and octupole collectivity in the ^{132}Sn region", *Phys. Rev. Lett.* 75 3090 (1995).
- J12 P. Hoff, J.P. Omtvedt, B. Fogelberg, H. Mach, M. Hellström.: "The $Z=52$ and $N=84$ nucleus ^{136}Te : Low spin states observed in the decay of ^{136}Sb ", *Phys. Rev. C* 56, 2865 (1997).
- J13 B. Wierczinski, J. Alstad, K. Eberhardt, J.V. Kratz, R. Malmbeck, M. Mendel, A. Nähler, J.P. Omtvedt, G. Skarnemark, N. Trautmann, N. Wiehl: "Application of fast solvent extraction processes to studies of exotic nuclides", *Journ. Radioanal. Nucl. Chem.* 236 193 (1998).
- J14 G. Lhersonneau, B. Pfeiffer, J. Alstad, P. Dendooven, K. Eberhardt, S. Hankonen, I. Klöckl, K.-L. Kratz, A. Nähler, R. Malmbeck, J.P. Omtvedt, H. Penttilä, S. Schoedder, G. Skarnemark, N. Trautmann, J. Äystö.: "Shape coexistence near the double-midshell nucleus ^{111}Rh ", *Eur. Phys. J. A* 1 285 (1998).
- J15 J.P. Omtvedt, J. Alstad, K. Eberhardt, K. Fure, R. Malmbeck, M. Mendel, A. Nähler, G. Skarnemark, N. Trautmann, N. Wiehl, B. Wierczinski: "Review of the SISAK System in Transactinide Research - Recent Developments and Future Prospects", *Journ. Alloys. Compounds.* 271 303 (1998).
- J16 R. Malmbeck, G. Skarnemark, J. Alstad, K. Fure, M. Johansson, J.P. Omtvedt: "Chemical Separation Procedure Proposed for Studies of Bohrium", *Journ. Radioanal. and Nucl. Chem.* 246 349 (2000).

- J17 M. Johansson, J. Alstad, J.P. Omtvedt and G. Skarnemark: "A comparison of the extraction of carrier-free 176,177W and 99Mo with that of U, Th, Am, Cm, La, Ce, Tm, Yb, Lu, and Hf into tri-n-octyl amine in toluene from nitric, phosphoric, and sulphuric acid media", *Radiochim. Acta* 89, 619 (2001)
- J18 B. Wierszinski, K.E. Gregorich, B. Kadkhodayan, D.M. Lee, L.G. Beauvais, M.B. Hendricks, C.D. Kacher, M.R. Lane, D.A. Keeney-Shaughnessy, N.J. Stoyer, D.A. Strellis, E.R. Sylwester, P.A. Wilk, D.C. Hoffman, R. Malmbeck, G. Skarnemark, J. Alstad, J.P. Omtvedt, K. Eberhardt, M. Mendel, A. Nähler, N. Trautmann: "First chemical on-line separation and detection of a subsecond α decaying nuclide, 224Pa", *Journ. of Radioanal. and Nucl. Chem.* 247 57 (2001).
- J19 U. W. Kirbach, C. M. Folden III, T. N. Ginter, K. E. Gregorich, D. M. Lee, V. Ninov, J.P. Omtvedt, J.B. Patin, N. K. Seward, D.A. Strellis, R. Sudowe, A. Türler, P.A. Wilk, P.M. Zielinski, D.C. Hoffman, H. Nitsche.: "The Cryo Thermo-chromatographic Separator (CTS): A new rapid separation and α detection system for on line chemical studies of highly volatile osmium and hassium (Z=108) tetroxides", *Nucl. Instr. and Methods*, A484 587 (2002).
- J20 L. Stavsetra and J.P. Omtvedt: "Detection Of Transactinides With α liquid Scintillation", in Proceedings to the International Conference on Advances in Liquid Scintillation Spectrometry 2001, 7-11 May 2001, Karlsruhe, Germany; published in *Radiocarbon*, University of Arizona, Tucson, Arizona, USA. ISBN 0 9638314 4 5. p. 25-33 (2002).
- J21 Eberhardt, Klaus; Alstad, Jorolf; Kling, H.O.; Kratz, J.V.; Langrock, G; Omtvedt, Jon Petter; Skarnemark, Gunnar; Stavsetra, Liv; Tharun, U; Trautmann, Norbert; Wiehl, Norbert; Wierczinski, Birgit. Digital Pulse Shape Analysis in Liquid Scintillation Measurements after Continuous Chemical Separations. In International Conference on Advances in Liquid Scintillation Spectrometry 2001, 7-11 May 2001, Karlsruhe, Germany; Published in *Radiocarbon*, University of Arizona, Tucson, Arizona USA. ISBN 0 9638314 4 5. p. 19 24 (2002).
- J22 J.P. Omtvedt, J. Alstad, H. Breivik, J.E. Dyve, K. Eberhardt, C.M. Folden III, T. Ginter, K.E. Gregorich, E.A. Hult, M. Johansson, U.W. Kirbach, D.M. Lee, M. Mendel, A. Nähler, V. Ninov, L.A. Omtvedt, J.B. Patin, G. Skarnemark, L. Stavsetra, R. Sudowe, N. Wiehl, B. Wierczinski, A. Wilk, P.M. Zielinski, J.V. Kratz, N. Trautmann, H. Nitsche, D.C. Hoffman: "SISAK Liquid Liquid Extraction Experiments with Preseparated 257Rf" *Journ. Nucl. Radiochem. Sciences* 3, 121 (2002).
- J23 G. Skarnemark, J. Alstad, K. Eberhardt, K.E. Gregorich, D.C. Hoffman, M. Johansson, U. Kirbach, G. Langrock, M. Mendel, V. Ninov, H. Nitsche, A. Nähler, J.P. Omtvedt, L.A. Omtvedt, L. Stavsetra, R. Sudowe, N. Trautmann, and N. Wiehl: "Application of SISAK for fast continuous solvent extraction processes to study exotic nuclides" in *Proceeding of the International Solvent Extraction Conference ISEC 2002*. Johannesburg: South African Institute of Mining and Metallurgy. ISBN 1 919783 24 5. p. 1199 (2002).
- J24 K.E. Gregorich, T.N. Ginter, W. Loveland, D. Peterson, J.B. Patin, C.M. Folden III, D.C. Hoffman, D.M. Lee, H. Nitsche, J.P. Omtvedt, L.A. Omtvedt, L. Stavsetra, R. Sudowe, P.A. Wilk, P.M. Zielinski, K. Aleklett: "Cross Section Limits for the 208Pb(86Kr,n)293118 Reaction", *Eur Phy J A* 18, 633 (2003)
- J25 M. Johansson, J. Alstad, J.P. Omtvedt, G. Skarnemark: "A comparison of the extraction of carrier free W 176, W 177 and Mo 99 with that of U, Th, Am, Cm, La, Ce, Tm, Yb, Lu and Hf into Aliquat 336 in toluene from nitric, phosphoric, and sulphuric acid media", *Radiochim Acta* 91, 351 (2003)
- J26 L. Stavsetra, K.E. Gregorich, J. Alstad, H. Breivik, K. Eberhardt, C.M. Folden III, T.N. Ginter, M. Johansson, U.W. Kirbach, D.M. Lee, J. P. Omtvedt et al.: "Liquid scintillation detection of pre-separated 257Rf with the SISAK system" *Nuclear Instruments and Methods in Physics Research*, A543, 509 (2005)
- J27 L. Stavsetra, E.A. Hult and J.P. Omtvedt: "Real time gain shift correction for on line alpha liquid scintillation spectroscopy" *Nuclear Instruments and Methods in Physics Research*, A551, 323 (2005)

- J28 Gregorich KE, Loveland W, Peterson D, Zielinski PM, Nelson SL, Chung YH, Düllmann CE, Folden CM, Aleklett K, Eichler R, Hoffman DC, Omtvedt JP, Pang GK, Schwantes JM, Soverna S, Sprunger P, Sudowe R, Wilson RE, Nitsche H: "Attempt to confirm superheavy element production in the Ca 48+U 238 reaction", *Phys. Rev. C* 72, 014605 (2005)
- J29 L. Stavsetra, K. E. Gregorich, J. Alstad, H. Breivik, K. Eberhardt, C. M. Folden III, T. N. Ginter, M. Johansson, U. W. Kirbach, D. M. Lee, M. Mendel, L. A. Omtvedt, J. B. Patin, G. Skarnemark, R. Sudowe, P. A. Wilk, P. M. Zielinski, H. Nitsche, D. C. Hoffman, J. P. Omtvedt: "Liquid scintillation detection of pre-separated ²⁵⁷Rf with the SISAK system" *Nuclear Instruments & Methods in Physics Research A* 543, 509 (2005)
- J30 V. Pershina, D. Polakova, J.P. Omtvedt: "Theoretical Predictions of Complex Formation of Group 4 Elements Zr, Hf and Rf in H₂SO₄ Solutions", *Radiochim. Acta* 94, 407 (2006)
- J31 J.P. Omtvedt, J. Alstad, T. Bjørnstad, C.E. Düllmann, C.M. Folden, K.E. Gregorich, D.C. Hoffman, H. Nitsche, D. Polakova, F. Samadani, G. Skarnemark, L. Stavsetra, R. Sudowe, L. Zheng: "SISAK Liquid Liquid Extraction Studies of Rutherfordium and Future Plans to Study Heavier Transactinides" in *Recent Advances in Actinide Science*, RSC Publishing, ISBN 0 85404 678 X., 278 (2006)
- J32 D. Polakova, J. Alstad, T. Bjørnstad, G. Skarnemark, L. Stavsetra, R. Sudowe, L. Zheng, D.C. Hoffman, H. Nitsche, J.P. Omtvedt: "Development of a System for Chemical Studies of Rutherfordium by Liquid Liquid Extraction From Sulphuric Acid Solutions with SISAK", in *Recent Advances in Actinide Science*, RSC Publishing ISBN 0 85404 678 X. s. 281 (2006)
- J33 L. Zheng, J. Alstad, T. Bjørnstad, D. Polakova, L. Stavsetra, J.P. Omtvedt: "Influence of KCl on the Extraction of Rutherfordium Homologues Hafnium and Zirconium From Sulphuric Acid with Tri Octylamine in Toluene", in *Recent Advances in Actinide Science*, RSC Publishing, ISBN 0 85404 678 X. s. 284 (2006)
- J34 J. P. Omtvedt, J. Alstad, T. Bjørnstad, Ch. E. Düllmann, K. E. Gregorich, D. C. Hoffman, H. Nitsche, K. Opel, D. Polakova, F. Samadani, F. Schulz, G. Skarnemark, L. Stavsetra, R. Sudowe, L. Zheng: "Chemical Properties of the Transactinide Elements Studied in Liquid Phase with SISAK", *Eur Phys. J. D* 45 97 (2007) (DOI: 10.1140/epjd/e2007 00214 6)
- J35 L. Zheng, J. Alstad, T. Bjørnstad, D. Poláková, L. Stavsetra, and J. P. Omtvedt: "Extraction of Nb and Ta, homologues of Db, from sulphuric acid solutions with TOA in toluene using SISAK", *Radiochim. Acta* 96, 41 (2008) (DOI 10.1524/ract.2008.1463)
- J36 J. P. Omtvedt: "Hvordan får vi energi fra thorium?", *Naturfag* 2008, volum 1, 28 (2008)
- J37 J.P. Omtvedt, L. Stavsetra, F. Schulz, K. Opel: "Kan laboratorieøvelser gis som fjernundervisning? Erfaringer fra utvikling av det fjernstyrte laboratoriet RoboLab", in "Ringer i vann. Lenge leve fleksibel læring ved Universitetet i Oslo", Susanne Anette Kjekshus, Koch (red.), UiO. ISBN 978 82 997407 3 9, p 49 58
- J38 R. Graeger, D. Ackermann, M. Chelnokov, V. Chepigin, Ch. E. Düllmann, J. Dvorak, J. Even, A. Gorshkov, F.P. Heßberger, D. Hild, A. Hübner, E. Jäger, J. Khuyagbaatar, B. Kindler, J. V. Kratz, J. Krier, A. Kuznetsov, B. Lommel, K. Nishio, H. Nitsche, J. P. Omtvedt, O. Petrushkin, D. Rudolph, J. Runke, F. Samadani, M. Schädel, B. Schausten, A. Türler, A. Yakushev, and Q. Zhi: "Experimental Study of the ²³⁸U(³⁶S, ³ n)²⁶⁹ ²⁷¹Hs reaction leading to the observation of ²⁷⁰Hs", *Phys. Rev. C* 81, 061601R (2010)
- J39 Ch.E. Düllmann, M. Schädel, A. Yakushev, A. Türler, K. Eberhardt, J.V. Kratz, D. Ackermann, L. L. Andersson, M. Block, W. Bröchle, J. Dvorak, H.G. Essel, P.A. Ellison, J. Even, J.M. Gates, A. Gorshkov, R. Graeger, K.E. Gregorich, W. Hartmann, R. D. Herzberg, F.P. Heßberger, D. Hild, A. Hübner, E. Jäger, J. Khuyagbaatar, B. Kindler, J. Krier, N. Kurz, S. Lahiri, D. Liebe, B. Lommel, M. Maiti, H. Nitsche, J.P. Omtvedt, E. Parr, D. Rudolph, J. Runke, B. Schausten, E. Schimpf, A. Semchenkov, J. Steiner, P. Thörle

- Pospiech, J. Uusitalo, M. Wegrzecki, N. Wiehl: "Production and decay of element 114: high cross sections and the new nucleus 277Hs", *Phys. Rev. Lett.* **104**, 252701 (2010)
- J40 F. Samadani, J. Alstad, T. Bjørnstad, L. Stavsetra, J. P. Omtvedt: "Development of a SISAK extraction system for chemical studies of element 108, hassium", *Radiochim. Acta*, **98**, 757 (2010)
- J41 J. Even, J. Ballof, W. Bröchle, R. A. Buda, Ch. E. Düllmann, K. Eberhardt, A. Gorshkov, E. Gromm, D. Hild, E. Jäger, J. Khuyagbaatar, J. V. Kratz, J. Krier, D. Liebe, M. Mendel, D. Nayak, K. Opel, **J. P. Omtvedt**, P. Reichert, J. Runke, A. Sabelnikov, F. Samadani, M. Schädel, B. Schausten, N. Scheid, E. Schimpf, A. Semchenkov, P. Thörle-Pospiech, A. Toyoshima, A. Türler, V. Vicente Vilas, N. Wiehl, T. Wunderlich, A. Yakushev: "The recoil transfer chamber — An interface to connect the physical preseparator TASCA with chemistry and counting setups", *Nucl. Instru. Meth.* **A638**, 157, (2011).
- J42 J. Gates, Ch. E. Düllmann, A. Yakushev, A. Turler, K. Eberhardt, J. V. Kratz, D. Ackermann, L. L. Andersson, M. Block, W. Bruchle, J. Dvorak, H. G. Essel, P. A. Ellison, J. Even, U. Forsberg, J. Gellanki, A. Gorshkov, R. Graeger, K. E. Gregorich, W. Hartmann, R. D. Herzberg, F. P. Hessberger, D. Hild, A. Hubner, E. Jager, J. Khuyagbaatar, B. Kindler, J. Krier, N. Kurz, S. Lahiri, D. Liebe, B. Lommel, B; M. Maiti, H. Nitsche, **J. P. Omtvedt**, E. Parr, D. Rudolph, J. Runke, H. Schaffner, B. Schausten, E. Schimpf, A. Semchenkov, J. Steiner, P. Thorle-Pospiech, J. Uusitalo, M. Wegrzecki, N. Wiehl: "First superheavy element experiments at the GSI recoil separator TASCA: The production and decay of element 114 in the Pu-244(Ca-48,3-4n) reaction", *Phys. Rev. C* **83**, 054618 (2011).
- J43 N. Sen Gupta, D. S. Wragg, M. Tilset, **J. P. Omtvedt**: "4,7,13,18-Tetraoxa-1,10-diazoniabicyclo[8.5.5]icosane bis(hexafluoridophosphate)", *Acta Crystallographica* **E67** O1929-U2047 (2011).
- J44 N. Sen Gupta, D. S. Wragg, M. Tilset, J. P. Omtvedt: "4,7,13,18-Tetraoxa-1,10-diazoniabicyclo[8.5.5]icosane hexafluoridosilicate", *Acta Crystallographica* **E67** O1958-U2293 (2011).
- J45 U. Forsberg, P. Golubev, L. G. Sarmiento, J. Jeppsson, D. Rudolph, L. L. Andersson, D. Ackermann, M. Asai, M. Block, K. Eberhardt, J. Even, C. E. Dullmann, J. Dvorak, J. M. Gates, K. E. Gregorich, R. D. Herzberg, F. P. Hessberger, E. Jager, J. Khuyagbaatar, I. Kojouharov, J. V. Kratz, J. Krier, N. Kurz, S. Lahiri, B. Lommel, M. Maiti, E. Merchan, **J. P. Omtvedt**, E. Parr, J. Runke, H. Schaffner, M. Schadel, A. Yakushev: "First Experiment at Tasca Towards X-Ray Fingerprinting of Element 115 Decay Chains", *Acta Phys. Polonica* **B43**, 305 (2012).
- J46 I. Usoltsev, R. Eichler, R. Dressler, D. Piguet, D. Wittwer, A. Türler, R. Brutsch, E. A. Olsen, **J.P. Omtvedt**, A. Semchenkov: "Preparation of Pd-based intermetallic targets for high intensity irradiations", *Nucl. Instr. Meth.* **A691**, 5 (2012).
- J47 D. Rudolph, U. Forsberg, P. Golubev, L.G. Sarmiento, A. Yakushev, L.-L. Andersson, A. Di Nitto, Ch.E. Düllmann, J.M. Gates, K.E. Gregorich, C.J. Gross, F.P. Heßberger, R.-D. Herzberg, J. Khuyagbaatar, J.V. Kratz, K. Rykaczewski, M. Schädel, S. Åberg, D. Ackermann, M. Block, H. Brand, B.G. Carlsson, D. Cox, X. Derkx, K. Eberhardt, J. Even, C. Fahlander, J. Gerl, E. Jäger, B. Kindler, J. Krier, I. Kojouharov, N. Kurz, B. Lommel, A. Mistry, C. Mokry, H. Nitsche, **J.P. Omtvedt**, P. Papadakis, I. Ragnarsson, J. Runke, H. Schaffner, B. Schausten, P. Thörle-Pospiech, T. Torres, T. Traut, N. Trautmann, A. Türler, A. Ward, D.E. Ward, N. Wiehl: "Spectroscopy of Element 115 Decay Chains", *Phys. Rev. Lett.* **111**, 112502 (2013).
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