

Calem R. Hoffman

EDUCATION	Ph.D., Physics, Florida State University, Spring 2009 B.S., Physics, Florida State University, Fall 2003
POSITIONS HELD	Assistant Physicist Physics Division, Argonne National Laboratory, August 2012 - Present Director's Postdoctoral Fellow Physics Division, Argonne National Laboratory, October 2010 - August 2012 Postdoctoral Researcher Physics Division, Argonne National Laboratory, May 2009 - October 2010 Graduate Research Assistant Department of Physics, Florida State University, May 2005 - May 2009 Graduate Teaching Assistant Department of Physics, Florida State University, January 2005 - May 2005 Department of Physics, Michigan State University, September 2004 - December 2004
AWARDS	Dissertation Award in Nuclear Physics American Physical Society Division of Nuclear Physics, February 2010 John D. Fox Award in Nuclear Physics Department of Physics, Florida State University, April 2007
RESEARCH INTERESTS	Low energy nuclear structure physics, with a focus on the single-particle shell structure of exotic nuclei.
PUBLICATIONS	Yrast structure of ^{206}Bi: Isomeric states and one-proton-particle, three-neutron-hole excitations N. Cieplicka, K. H. Maier, B. Fornal, B. Szpak, R. V. F. Janssens, M. Alcorta, R. Broda, M. P. Carpenter, C. J. Chiara, <u>C. R. Hoffman</u> , B. P. Kay, F. G. Kondev, W. and Królas, T. Lauritsen, C. J. Lister, E. A. McCutchan, T. Pawlat, A. M. Rogers, D. Seweryniak, N. Sharp, W. B. Walters, J. Wrzesiński, J. and S. Zhu, Phys. Rev. C 86 , 054322 (2012) Neutron unbound states in ^{28}Ne and ^{25}F J. K. Smith, T. Baumann, B. A. Brown, G. Christian, J. E. Finck, <u>C. R. Hoffman</u> , Z. Kohley, S. Mosby, J. F. Novak, S. J. Quinn, J. Snyder, A. Spyrou, M. J. Strongman, and M. Thoennessen, Phys. Rev C 86 , 057302 (2012) Well Developed Deformation in ^{42}Si S. Takeuchi, M. Matsushita, N. Aoi, P. Doornenbal, K. Li, T. Motobayashi, H. Scheit, D. Steppenbeck, H. Wang, H. Baba, D. Bazin, L. Cáceres, H. Crawford, P. Fallon, R. Gernhäuser, J. Gibelin, S. Go, S. Grévy, C. Hinke, <u>C. R. Hoffman</u> , R. Hughes, E. Ideguchi, D. Jenkins, N. Kobayashi, Y. Kondo, R. Krücken, T. Le Bleis, J. Lee, G. Lee, A. Matta, S. Michimasa, T. Nakamura, S. Ota, M. Petri, T. Sako, H. Sakurai, S. Shimoura, K. Steiger, K. Takahashi, M. Takechi, Y. Togano, R. Winkler, and K. Yoneda, Phys. Rev. Lett. 109 , 182501 (2012) Low-spin states and the non-observation of a proposed 2202-keV, 0^+ isomer in ^{68}Ni C. J. Chiara, R. Broda, W. B. Walters, R. V. F. Janssens, M. Albers, M. Alcorta, P. F. Bertone, M. P. Carpenter, <u>C. R. Hoffman</u> , T. Lauritsen, T. A. M. Rogers, D. Seweryniak, S. Zhu, F. G. Kondev, B. Fornal, W. Królas, J. Wrzesiński, N. Larson, S. N. Liddick, C. Prokop, S. Suchyta, H. M. David, and D. T. Doherty, Phys. Rev. C 86 , 041304(R) (2012) Competing single-particle and collective behavior in ^{71}Se A. R. Howe, R. A. Haring-Kaye, J. Döring, N. R. Baker, S. J. Kuhn, S. L. Tabor, S. R. Arora, J. K. Bruckman, and <u>C. R. Hoffman</u> , Phys. Rev. C 86 , 014328 (2012) Lifetime of the 2_1^+ state in ^{10}C E. A. McCutchan, C. J. Lister, Steven C. Pieper, R. B. Wiringa, D. Seweryniak, J. P. Greene, P. F.

Bertone, M. P. Carpenter, C. J. Chiara, G. Gürdal, C. R. Hoffman, R. V. F. Janssens, T. L. Khoo, T. Lauritsen, and S. Zhu, Phys. Rev. C **86**, 014312 (2012)

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Vandana Tripathi, S. L. Tabor, C. R. Hoffman, M. Wiedeking, A. Volya, P. F. Mantica, A. D. Davies, S. N. Liddick, W. F. Mueller, A. Stolz, B. E. Tomlin, T. Otsuka, and Y. Utsuno, Phys. Rev. C **73**, 054303 (2006)

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β -delayed proton decay of a high-spin isomer in ^{94}Ag

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On the β -decaying (21^+) spin gap isomer in ^{94}Ag

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Structure of $T = 2$ ^{24}Ne from ^{14}C on ^{14}C

C. R. Hoffman, S. L. Tabor, M. W. Cooper, T. Baldwin, D. B. Campbell, C. Chandler, K. W. Kemper, J. Pavan, A. Pipidis, M. A. Riley, M. Wiedeking, and B. A. Brown, Phys. Rev. C **68**, 034304 (2003)

 $T = \frac{5}{2}$ ^{27}Na from $^{14}\text{C} + ^{14}\text{C}$, and the $N = 16$ shell gap

M. W. Cooper, S. L. Tabor, T. Baldwin, D. B. Campbell, C. Chandler, C. R. Hoffman, K. W. Kemper, J. Pavan, A. Pipidis, M. A. Riley, and M. Wiedeking, Phys. Rev. C **65**, 051302 (2002)

PROCEEDINGS**The deformed 0^+ state in ^{34}Si**

S. Paschalidis, P. Fallon, A. O. Macchiavelli, M. Petri, P. C. Bender, M. P. Carpenter, X. Chen, C. J. Chiara, R. M. Clark, M. Cromaz, S. Gros, L. Hamilton, C. R. Hoffman, R. V. F. Janssens, T. Lauritsen, I. Y. Lee, C. J. Lister, E. A. McCutchan, L. Phair, W. Reviol, D. G. Sarantites, D. Seweryniak, S. L. Tabor, Y. Toh, M. Wiedeking and S. Zhu, International Nuclear Physics Conference 2010 (INPC2010), J. Phys.: Conf. Ser. **312**, 092050, 2011.

Study of valence neutrons in ^{136}Xe with HELIOS

B. P. Kay, J. P. Schiffer, S. J. Freeman, B. B. Back, S. Bedoor, S. I. Baker, T. Bloxham, J. A. Clark, C. M. Deibel, C. R. Hoffman, A. M. Howard, J. C. Lighthall, S. T. Marley, K. E. Rehm, D. K. Sharp, D. V. Shetty, J. S. Thomas and A. H. Wuosmaa, International Nuclear Physics Conference 2010 (INPC2010), J. Phys.: Conf. Ser. **312** 092034, 2011.

High-spin states and deformation properties in ^{187}Pt

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Studies of β -delayed proton decays of $\text{N} \sim \text{Z}$ nuclei around 100Sn at the GSI-ISOL facility

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INVITED TALKS**Characterizing neutron $0p - 1s0d$ single-particle evolution in neutron-rich nuclei**

INT Workshop on the Structure of Light Nuclei, University of Washington, WA, October 8-12, 2012

Characterizing shell evolution in the neutron-rich oxygen isotopes

Physics Division Seminar, Argonne National Laboratory, Argonne, IL, June 8, 2012

Shell Evolution and Magic Numbers in Neutron-Rich Nuclei

Florida State University Colloquium, Tallahassee, FL, December 2, 2010

Two-neutron cascade at the oxygen drip line

Nuclear Structure 2010, Clark-Kerr Campus, U. C. Berkeley, CA, August 8-13, 2010

Dissertation award in nuclear physics

American Physical Society April Meeting, Washington, D. C., February 13-16, 2010

Shell evolution at the oxygen drip line

VIII Latin American Symposium on Nuclear Physics and Applications, Universidad de Chile, Santiago, Chile, December 15-19, 2009

Spectroscopy of unbound states at the oxygen drip line

Unbound Nuclei Workshop, INFN, Pisa, Italy, November 3-5, 2008

Investigating the $N = 16$ shell closure at the oxygen drip line

Nuclear Structure 2008, Michigan State University, East Lansing, MI, June 3-6, 2008

First Observation of ^{25}O

National Superconducting Cyclotron Laboratory User Workshop, East Lansing, MI, August 16-17, 2007

Unbound states of neutron-rich Oxygen isotopes

JUSTIPEN-EFES workshop on shell structure of exotic nuclei 4th workshop by the DOE project JUSTIPEN and the JSPS core-to-core project EFES, RIKEN, Tokyo, Japan, June 23, 2007

Unbound States of neutron-rich oxygen isotopes: Investigation into the $N = 16$ shell gap

Nuclear Structure: New Pictures in the Extended Isospin Space, Yukawa Institute for Theoretical Physics, Kyoto University, Kyoto, Japan, June 11-14, 2007

Unbound states of neutron-rich oxygen isotopes: Investigation into the $N = 16$ shell gap

Direct Reactions with Exotic Beams, RIKEN, Tokyo, Japan, May 30 - June 2, 2007

ACTIVITIES

Referee for the Physical Review Journals

American Physical Society, January 2011 - Present

Japan-U.S. Institute for Physics with Exotic Nuclei (JUSTIPEN)

RIKEN, Tokyo, Japan, October 2010

Japan-U.S. Institute for Physics with Exotic Nuclei (JUSTIPEN)

RIKEN, Tokyo, Japan, June 2007

The Fourth Rare Isotope Accelerator Summer School

Lawrence Berkeley National Laboratory, Berkeley, CA, Summer 2005

The Third Rare Isotope Accelerator Summer School

Argonne National Laboratory, Argonne, IL, Summer 2004