

Calem R. Hoffman

EDUCATION	Ph.D., Physics, Florida State University, Spring 2009 B.S., Physics, Florida State University, Fall 2003
POSITIONS HELD	Physicist Physics Division, Argonne National Laboratory, April 2017 - Present Assistant Physicist Physics Division, Argonne National Laboratory, August 2012 - March 2017 Argonne 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 & Astronomy, 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 evolution of the single-particle shell structure from stability to the binding limits.
PEER-REVIEWED PUBLICATIONS	<p>2017</p> <ol style="list-style-type: none">1. γ spectroscopy of states in ^{32}Cl relevant for the $^{31}\text{S}(p,\gamma) ^{32}\text{Cl}$ reaction rate L. Afanasieva, J. C. Blackmon, C. M. Deibel, J. Lai, L. E. Linhardt, B. C. Rasco, D. Seweryniak, M. Alcorta, M. P. Carpenter, J. A. Clark, C. R. Hoffman, R. V. F. Janssens, and S. Zhu, Phys. Rev. C 96, 035801 (2017)2. Study of the $^{26}\text{Al}^m(d,p)^{27}\text{Al}$ Reaction and the Influence of the ^{26}Al 0^+ isomer on the Destruction of ^{26}Al in the Galaxy S. Almaraz-Calderon, K. E. Rehm, N. Gerken, M. L. Avila, B. P. Kay, R. Talwar, A. D. Ayangeakaa, S. Bottoni, A. A. Chen, C. M. Deibel, C. Dickerson, K. Hanselman, C. R. Hoffman, C. L. Jiang, S. A. Kuvin, O. Nusair, R. C. Pardo, D. Santiago-Gonzalez, J. Sethi, and C. Ugalde, Phys. Rev. Lett. 119, 072701 (2017)3. In-beam γ-ray spectroscopy studies of medium-spin states in the odd-odd nucleus ^{186}Re D. A. Matters, F. G. Kondev, N. Aoi, Y. Ayyad, A. P. Byrne, M. P. Carpenter, J. J. Carroll, C. J. Chiara, P. M. Davidson, G. D. Dracoulis, Y. D. Fang, C. R. Hoffman, R. O. Hughes, E. Ideguchi, R. V. F. Janssens, S. Kanaya, B. P. Kay, T. Kibedi, G. J. Lane, T. Lauritsen, J. W. McClory, P. Nieminen, S. Noji, A. Odahara, H. J. Ong, A. E. Stuchbery, D. T. Tran, H. Watanabe, A. N. Wilson, Y. Yamamoto, and S. Zhu, Phys. Rev. C 96, 014318 (2017)

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4. **Doubly magic ^{208}Pb : High-spin states, isomers, and $E3$ collectivity in the yrast decay**
R. Broda, R. V. F. Janssens, L. W. Iskra, J. Wrzesinski, B. Fornal, M. P. Carpenter, C. J. Chiara, N. Cieplicka-Orynczak, C. R. Hoffman, F. G. Kondev, W. Krolas, T. Lauritsen, Zs. Podolyak, D. Seweryniak, C. M. Shand, B. Szpak, W. B. Walters, S. Zhu, and B. A. Brown, *Phys. Rev. C* **95**, 064308 (2017)
5. **Direct Evidence for Octupole Deformation in ^{146}Ba and the Origin of Large $E1$ Moment Variations in Reflection-Asymmetric Nuclei**
B. Bucher, S. Zhu, C. Y. Wu, R. V. F. Janssens, R. N. Bernard, L. M. Robledo, T. R. Rodriguez, D. Cline, A. B. Hayes, A. D. Ayangeakaa, M. Q. Buckner, C. M. Campbell, M. P. Carpenter, J. A. Clark, H. L. Crawford, H. M. David, C. Dickerson, J. Harker, C. R. Hoffman, B. P. Kay, F. G. Kondev, T. Lauritsen, A. O. Macchiavelli, R. C. Pardo, G. Savard, D. Seweryniak, and R. Vondrasek, *Phys. Rev. Lett.* **118**, 152504 (2017)
6. **Experimental study of the astrophysically important $^{23}\text{Na}(\alpha,p)^{26}\text{Mg}$ and $^{23}\text{Na}(\alpha,n)^{26}\text{Al}$ reactions**
M. L. Avila, K. E. Rehm, S. Almaraz-Calderon, A. D. Ayangeakaa, C. Dickerson, C. R. Hoffman, C. L. Jiang, B. P. Kay, J. Lai, O. Nusair, R. C. Pardo, D. Santiago-Gonzalez, R. Talwar, and C. Ugalde *Phys. Rev. C* **94**, 065804 (2016)
7. **Neutron single-particle strengths at $N = 40, 42$: Neutron knockout from $^{68,70}\text{Ni}$ ground and isomeric states**
F. Recchia, D. Weisshaar, A. Gade, J. A. Tostevin, R. V. F. Janssens, M. Albers, V. M. Bader, T. Baugher, D. Bazin, J. S. Berryman, B. A. Brown, C. M. Campbell, M. P. Carpenter, J. Chen, C. J. Chiara, H. L. Crawford, C. R. Hoffman, F. G. Kondev, A. Korichi, C. Langer, T. Lauritsen, S. N. Liddick, E. Lunderberg, S. Noji, C. Prokop, S. R. Stroberg, S. Suchyta, K. Wimmer, and S. Zhu, *Phys. Rev. C* **94**, 054324 (2016)
8. **Single-particle and collective excitations in ^{62}Ni**
M. Albers, S. Zhu, A. D. Ayangeakaa, R. V. F. Janssens, J. Gellanki, I. Ragnarsson, M. Alcorta, T. Baugher, P. F. Bertone, M. P. Carpenter, C. J. Chiara, P. Chowdhury, H. M. David, A. N. Deacon, B. DiGiovine, A. Gade, C. R. Hoffman, F. G. Kondev, T. Lauritsen, C. J. Lister, E. A. McCutchan, C. Nair, A. M. Rogers, and D. Seweryniak, *Phys. Rev. C* **94**, 034301 (2016)
9. **Ordering of the $0d_{5/2}$ and $1s_{1/2}$ proton levels in light nuclei**
C. R. Hoffman, B. P. Kay, and J. P. Schiffer, *Phys. Rev. C* **94**, 024330 (2016)
10. **Population and decay of a $K^\pi = 8^-$ two-quasineutron isomer in ^{244}Pu**
S. S. Hota, S. K. Tandel, P. Chowdhury, I. Ahmad, M. P. Carpenter, C. J. Chiara, J. P. Greene, C. R. Hoffman, E. G. Jackson, R. V. F. Janssens, B. P. Kay, T. L. Khoo, F. G. Kondev, S. Lakshmi, S. Lalkovski, T. Lauritsen, C. J. Lister, E. A. McCutchan, K. Moran, D. Peterson, U. Shirwadkar, D. Seweryniak, I. Stefanescu, Y. Toh, and S. Zhu, *Phys. Rev. C* **94**, 021303(R) (2016)
11. **Change of nuclear configurations in the neutrinoless double- β decay of $^{130}\text{Te} \rightarrow ^{130}\text{Xe}$ and $^{136}\text{Xe} \rightarrow ^{136}\text{Ba}$**
J. P. Entwistle, B. P. Kay, A. Tamii, S. Adachi, N. Aoi, J. A. Clark, S. J. Freeman, H. Fujita, Y. Fujita, T. Furuno, T. Hashimoto, C. R. Hoffman, E. Ideguchi, T. Ito, C. Iwamoto, T. Kawabata, B. Liu, M. Miura, H. J. Ong, J. P. Schiffer, D. K. Sharp, G. Susoy, T. Suzuki, S. V. Szwec, M. Takaki, M. Tsumura, and T. Yamamoto, *Phys. Rev. C* **93**, 064312 (2016)
12. **Independent measurement of the Hoyle state β feeding from ^{12}B using Gammasphere**
M. Munch, M. Alcorta, H. O. U. Fynbo, M. Albers, S. Almaraz-Calderon, M. L. Avila, A. D. Ayangeakaa, B. B. Back, P. F. Bertone, P. F. F. Carnelli, M. P. Carpenter, C. J. Chiara, J. A.

Clark, B. DiGiovine, J. P. Greene, J. L. Harker, C. R. Hoffman, N. J. Hubbard, C. L. Jiang, O. S. Kirsebom, T. Lauritsen, K. L. Laursen, S. T. Marley, C. Nair, O. Nusair, D. Santiago-Gonzalez, J. Sethi, D. Seweryniak, R. Talwar, C. Ugalde, and S. Zhu, *Phys. Rev. C* **93**, 065803 (2016)

13. **Structure of ^{14}C and ^{14}B from the $^{14,15}\text{C}(d, ^3\text{He})^{13,14}\text{B}$ reactions**
S. Bedoor, A. H. Wuosmaa, M. Albers, M. Alcorta, Sergio Almaraz-Calderon, B. B. Back, P. F. Bertone, C. M. Deibel, C. R. Hoffman, J. C. Lighthall, S. T. Marley, D. G. Mcneel, R. C. Pardo, K. E. Rehm, J. P. Schiffer, and D. V. Shetty, *Phys. Rev. C* **93**, 044323 (2016)
 14. **Shape coexistence and the role of axial asymmetry in ^{72}Ge**
A. D. Ayangeakaa, R. V. F. Janssens, C. Y. Wu, J. M. Allmond, J. L. Wood, S. Zhu, M. Albers, S. Almaraz-Calderon, B. Bucher, M. P. Carpenter, C. J. Chiara, D. Cline, H.L. Crawford, H. M. David, J. Harker, A.B. Hayes, C. R. Hoffman, B. P. Kay, K. Kolos, A. Korichi, T. Lauritsen, A. O. Macchiavelli, A. Richard, D. Seweryniak and A. Wiens, *Phy. Lett. B* **754**, 254 (2016)
 15. **Direct Evidence of Octupole Deformation in Neutron-Rich ^{144}Ba**
B. Bucher, S. Zhu, C. Y. Wu, R. V. F. Janssens, D. Cline, A. B. Hayes, M. Albers, A. D. Ayangeakaa, P. A. Butler, C. M. Campbell, M. P. Carpenter, C. J. Chiara, J. A. Clark, H. L. Crawford, M. Cromaz, H. M. David, C. Dickerson, E. T. Gregor, J. Harker, C. R. Hoffman, B. P. Kay, F. G. Kondev, A. Korichi, T. Lauritsen, A. O. Macchiavelli, R. C. Pardo, A. Richard, M. A. Riley, G. Savard, M. Scheck, D. Seweryniak, M. K. Smith, R. Vondrasek, and A. Wiens, *Phys. Rev. Lett.* **116**, 112503 (2016)
 16. **In-beam γ -ray spectroscopy of ^{63}Mn** T. Baugher, A. Gade, R. V. F. Janssens, S. M. Lenzi, D. Bazin, M. P. Carpenter, C. J. Chiara, A. N. Deacon, S. J. Freeman, G. F. Grinyer, C. R. Hoffman, B. P. Kay, F. G. Kondev, T. Lauritsen, E. M. Lunderberg, S. McDaniel, K. C. Meierbacholt, A. Ratkiewicz, S. R. Stroberg, K. A. Walsh, D. Weisshaar, and S. Zhu, *Phys. Rev. C* **93**, 014313 (2016)
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17. **Decay and Fission Hindrance of Two- and Four-Quasiparticle K Isomers in ^{254}Rf**
H. M. David, J. Chen, D. Seweryniak, F. G. Kondev, J. M. Gates, K. E. Gregorich, I. Ahmad, M. Albers, M. Alcorta, B. B. Back, B. Baartman, P. F. Bertone, L. A. Bernstein, C. M. Campbell, M. P. Carpenter, C. J. Chiara, R. M. Clark, M. Cromaz, D. T. Doherty, G. D. Dracoulis, N. E. Esker, P. Fallon, O. R. Gothe, J. P. Greene, P. T. Greenlees, D. J. Hartley, K. Hauschild, C. R. Hoffman, S. S. Hota, R. V. F. Janssens, T. L. Khoo, J. Konki, J. T. Kwarsick, T. Lauritsen, A. O. Macchiavelli, P. R. Mudder, C. Nair, Y. Qiu, J. Rissanen, A. M. Rogers, P. Ruotsalainen, G. Savard, S. Stolze, A. Wiens, and S. Zhu, *Phys. Rev. Lett.* **115**, 132502 (2015)
 18. **Analogous intruder behavior near Ni, Sn, and Pb isotopes**
S. N. Liddick, W. B. Walters, C. J. Chiara, R. V. F. Janssens, B. Abromeit, A. Ayres, A. Bey, C. R. Bingham, M. P. Carpenter, L. Cartegni, J. Chen6 H. L. Crawford, I. G. Darby, R. Grzywacz, J. Harker, C. R. Hoffman, S. Ilyushkin, F. G. Kondev, N. Larson, M. Madurga, D. Miller, S. Padgett, S. V. Paulauskas, M. M. Rajabali, K. Rykaczewski, D. Seweryniak, S. Suchyta, and S. Zhu, *Phys. Rev. C* **92**, 024319 (2015)
 19. **Persistence of collective behavior at high spin in the $N = 88$ nucleus ^{153}Tb**
D. J. Hartley, M. A. Riley, X. Wang, S. Miller, R. V. F. Janssens, E. S. Paul, J. M. Rees, J. Simpson, L. L. Riedinger, A. D. Ayangeakaa, M. P. Carpenter, C. J. Chiara, U. Garg, P. Hampson, C. R. Hoffman, F. G. Kondev, T. Lauritsen, P. J. Mason, J. T. Matta, P. J. Nolan, J. Ollier, M. Petri, D. C. Radford, J. P. Revill, S. Zhu, and I. Ragnarsson, *Phys. Rev. C* **91**, 057301 (2015)
 20. **Core excitations across the neutron shell gap in ^{207}Tl**
E. Wilson, Zs. Podolyak, H. Grawe, B. A. Brown, C. J. Chiara, S. Zhu, B. Fornal, R. V. F.

Janssens, C. M. Shand, M. Bowry, M. Bunce, M. P. Carpenter, N. Cieplicka-Orynczak, A. Y. Deo, G. D. Dracoulis, C. R. Hoffman, R. S. Kempley, F. G. Kondev, G. J. Lane, T. Lauritsen, G. Lotay, M. W. Reed, P. H. Regan, C. Rodriguez Triguero, D. Seweryniak, B. Szpak and P.M. Walker, Phys. Lett. B (2015)

21. High-spin terminating states in the $N=88$ ^{155}Ha and ^{156}Er isotones

J. M. Rees, E. S. Paul, J. Simpson, M. A. Riley, A. D. Ayangeakaa, M. P. Carpenter, C. J. Chiara, U. Garg, P. Hampson, D. J. Hartley, C. R. Hoffman, R. V. F. Janssens, F. G. Kondev, T. Lauritsen, P. J. R. Mason, J. Matta, S. L. Miller, P. J. Nolan, J. Ollier, M. Petri, D. C. Radford, J. P. Revill, X. Wang, S. Zhu, J. Gellanki, and I. Ragnarsson, Phys. Rev. C **91**, 054301 (2015)

22. Role of the $\nu g_{9/2}$ orbital in the development of collectivity in the $A \approx 60$ region: The case of ^{61}Co

A. D. Ayangeakaa, S. Zhu, R. V. F. Janssens, M. P. Carpenter, M. Albers, M. Alcorta, T. Baugher, P. F. Bertone, C. J. Chiara, P. Chowdhury, H. M. David, A. N. Deacon, B. DiGiovine, A. Gade, C. R. Hoffman, F. G. Kondev, T. Lauritsen, C. J. Lister, E. A. McCutchan, D. S. Moerland, C. Nair, A. M. Rogers, and D. Seweryniak, Phys. Rev. C **91**, 044327 (2015)

23. Identification of deformed intruder states in semi-magic ^{70}Ni

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24. Fission Barrier of Superheavy Nuclei and Persistence of Shell Effects at High Spin: Cases of ^{254}No and ^{220}Th

Greg Henning, T. L. Khoo, A. Lopez-Martens, D. Seweryniak, M. Alcorta, M. Asai, B. B. Back, P. F. Bertone, D. Boilley, M. P. Carpenter, C. J. Chiara, P. Chowdhury, B. Gall, P. T. Greenlees, G. Gürdal, K. Hauschild, A. Heinz, C. R. Hoffman, R. V. F. Janssens, A. V. Karpov, B. P. Kay, F. G. Kondev, S. Lakshmi, T. Lauritsen, C. J. Lister, E. A. McCutchan, C. Nair, J. Piot, D. Potterveld, P. Reiter, A. M. Rogers, N. Rowley, and S. Zhu, Phys. Rev. Lett. **113**, 262505 (2014)

25. Stretched states in $^{12,13}\text{B}$ with the (d,α) reaction

A. H. Wuosmaa, J. P. Schiffer, S. Bedoor, M. Albers, M. Alcorta, S. Almaraz-Calderon, B. B. Back, P. F. Bertone, C. M. Deibel, C. R. Hoffman, J. C. Lighthall, S. T. Marley, R. C. Pardo, K. E. Rehm, and D. V. Shetty, Phys. Rev. C **90**, 061301(R) (2014)

26. Multiple excitation modes in ^{163}Hf

R. B. Yadav, W. C. Ma, J. C. Marsh, Q. A. Ijaz, R. V. F. Janssens, M. P. Carpenter, C. R. Hoffman, T. Lauritsen, S. Zhu, F. G. Kondev, G. Gürdal, G. B. Hagemann, D. J. Hartley, L. L. Riedinger, and S. Mukhopadhyay, Phys. Rev. C **90**, 054325 (2014)

27. $N=151$ Pu, Cm, and Cf nuclei under rotational stress: Role of higher-order deformations

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28. **Neutron s states in loosely bound nuclei**
C. R. Hoffman, B. P. Kay, J. P. Schiffer, Phys. Rev. C **89**, 061305(R) (2014)
29. **Direct measurement of the $^{23}\text{Na}(\alpha,p)^{26}\text{Mg}$ reaction cross section at energies relevant for the production of galactic ^{26}Al**
S. Almaraz-Calderon, P.F. Bertone, M. Alcorta, M. Albers, C.M. Deibel, C. R. Hoffman, C.L. Jiang, S.T. Marley, K.E. Rehm, and C. Ugalde, Phys. Rev. Lett. **112**, 152701 (2014)
30. **Nuclear Structure Towards $N=40$ ^{60}Ca : In-Beam γ -ray Spectroscopy of $^{58,60}\text{Ti}$**
A. Gade, R. V. F. Janssens, D. Weisshaar, B. A. Brown, E. Lunderberg, M. Albers, M. V. Bader, T. Baugher, D. Bazin, J. S. Berryman, C. M. Campbell, M. P. Carpenter, C. J. Chiara, H. L. Crawford, M. Cromaz, U. Garg, C. R. Hoffman, F. G. Kondev, C. Recchia, T. Lauritsen, I. Y. Lee, S. M. Lenzi, T. J. Matta, F. Nowacki, F. Recchia, K. Sieja, S. R. Stroberg, J. A. Tostevin, S. J. Williams, K. Wimmer, S. Zhu, Phys. Rev. Lett. **112**, 112503 (2014)
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31. **Determining the $^7\text{Li}(n,\gamma)$ cross section via Coulomb dissociation of ^8Li**
R. Izsák, Á. Horváth, Á. Kiss, Z. Seres, A. Galonsky, C. A. Bertulani, Zs. Fülöp, T. Baumann, D. Bazin, K. Ieki, K. C. Bordeanu, N. Carlin, M. Csanád, F. Deák, P. DeYoung, N. Frank, T. Fukuchi, A. Gade, D. Galaviz, C. R. Hoffman, W. A. Peters, H. Schelin, M. Thoennessen, and G. I. Veres, Phys. Rev. C **88**, 065808 (2013)
32. **In-beam γ -ray spectroscopy of $^{34,36,38}\text{Mg}$ – Merging the $N=20$ and $N=28$ shell quenching**
P. Doornenbal, H. Scheit, S. Takeuchi, N. Aoi, K. Li, M. Matsushita, D. Steppenbeck, H. Wang, H. Baba, H. Crawford, C. R. Hoffman, R. Hughes, E. Ideguchi, N. Kobayashi, Y. Kondo, J. Lee, S. Michimasa, T. Motobayashi, H. Sakurai, M. Takechi, Y. Togano, R. Winkler, and K. Yoneda, Phys. Rev. Lett. **111**, 212502 (2013)
33. **Single-particle and collective excitations in ^{63}N**
M. Albers, S. Zhu, R. V. F. Janssens, J. Gellanki, I. Ragnarsson, M. Alcorta, T. Baugher, P. F. Bertone, M. P. Carpenter, C. J. Chiara, P. Chowdhury, A. N. Deacon, A. Gade, B. DiGiovine, C. R. Hoffman, F. G. Kondev, T. Lauritsen, C. J. Lister, E. A. McCutchan, D. S. Moerland, C. Nair, A. M. Rogers, and D. Seweryniak, Phys. Rev. C **88**, 054314 (2013)
34. **Identification of triaxial strongly deformed bands in ^{164}Hf**
J. C. Marsh, W. C. Ma, G. B. Hagemann, R. V. F. Janssens, R. Bengtsson, H. Ryde, M. P. Carpenter, G. Gürdal, D. J. Hartley, C. R. Hoffman, Q. A. Ijaz, F. G. Kondev, T. Lauritsen, S. Mukhopadhyay, L. L. Riedinger, R. B. Yadav, and S. Zhu, Phys. Rev. C **88**, 041306(R) (2013)
35. **Low-lying $T=0$ states in the odd-odd $N=Z$ nucleus ^{62}Ga**
H. M. David, P. J. Woods, G. Lotay, D. Seweryniak, M. Albers, M. Alcorta, M. P. Carpenter, C. J. Chiara, T. Davinson, D. T. Doherty, C.R. Hoffman, R. V. F. Janssens, T. Lauritsen, A. M. Rogers, and S. Zhu, Phys. Lett. B **726**, 665 (2013)
36. **Configuration mixing and relative transition rates between low-spin states in ^{68}Ni**
F. Recchia, C. J. Chiara, R. V. F. Janssens, D. Weisshaar, A. Gade, W. B. Walters, M. Albers, M. Alcorta, V. M. Bader, T. Baugher, D. Bazin, J. S. Berryman, P. F. Bertone, B. A. Brown, C. M. Campbell, M. P. Carpenter, J. Chen, H. L. Crawford, H. M. David, D. T. Doherty, C. R. Hoffman, F. G. Kondev, A. Korichi, C. Langer, N. Larson, T. Lauritsen, S. N. Liddick, E. Lunderberg, A. O. Macchiavelli, S. Noji, C. Prokop, A. M. Rogers, D. Seweryniak, S. R. Stroberg, S. Suchyta, S. Williams, K. Wimmer, and S. Zhu, Phys. Rev. C **88**, 041302(R) (2013)
37. **Single-neutron excitations in ^{18}N**
C. R. Hoffman, M. Albers, M. Alcorta, S. Almaraz-Calderon, B. B. Back, S. I. Baker, S. Bedoor, P.

F. Bertone, B. P. Kay, J. C. Lighthall, T. Palchan, R. C. Pardo, G. Perdikakis, K. E. Rehm, A. M. Rogers, D. Santiago-Gonzalez, Cenxi Yuan, and J. P. Schiffer, Phys. Rev. C **88**, 044317 (2013)

38. **Quadrupole moments of coexisting collective shapes at high spin in ^{154}Er**
J. P. Revill, E. S. Paul, X. Wang, M. A. Riley, J. Simpson, R. V. F. Janssens, J. Ollier, A. J. Boston, M. P. Carpenter, C. J. Chiara, C. R. Hoffman, F. G. Kondev, T. Lauritsen, P. J. Nolan, J. M. Rees, S. V. Rigby, C. Unsworth, S. Zhu, and I. Ragnarsson, Phys. Rev. C **88**, 031304 (2013)
39. **Structure of ^{14}B and the evolution of $N=9$ single-neutron isotones**
S. Bedoor, A. H. Wuosmaa, J. C. Lighthall, M. Alcorta, B. B. Back, P. F. Bertone, B. A. Brown, C. M. Deibel, C. R. Hoffman, S. T. Marley, R. C. Pardo, K. E. Rehm, A. M. Rogers, J. P. Schiffer, and D. V. Shetty, Phys. Rev. C **88**, 011304(R) (2013)
40. **Valence nucleon populations in the Ni isotopes**
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 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
- CONTRIBUTED
TALKS
- The role of s -States on the levels in light nuclei**
C.R. Hoffman, APS DNP Fall Meeting, Santa Fe (2015)
- Changes in the single-neutron shell spacing of light nuclei**
C.R. Hoffman, B. P. Kay, and J. P. Schiffer, APS DNP Fall Meeting, Hawii (2014)
- Study of the $^{19}\text{O}(d, p)$ reaction in inverse kinematics with HELIOS**
C.R. Hoffman, APS DNP Fall Meeting, East Lansing (2011)
- Digital Data Acquisition for Gammasphere**
C.R. Hoffman, APS DNP Fall Meeting, East Lansing (2011)
- Digital Data Acquisition for Gammasphere**
C.R. Hoffman, J.T. Anderson, M.P. Carpenter, T.A. Hayden, R.V.F. Janssens, A. Kreps, T. Lauritsen, C.J. Lister, D. Seweryniak, P. Wilt, S. Zhu, M. Cromaz, C. Lionberger, and I.Y. Lee, APS DNP Fall Meeting, Santa Fe, N. M., Bull. Am. Phys. Soc. **55**, No. 14 (2010)
- Two-neutron cascade at the oxygen drip line**
C. R. Hoffman, Argonne National Laboratory Post-Doc Symposium, Argonne, IL, Fall (2010)
- Unbound States of Neutron-Rich Oxygen Isotopes: Investigation into the $N = 16$ Shell Gap**
C. R. Hoffman, S. L. Tabor, T. Baumann, W. A. Peters, H. Scheit, A. Schiller, M. Thoennessen, N. Frank, P. A. DeYoung, and J. Hinnefeld, APS Spring Meeting, Jacksonville, F. L., Bull. Am. Phys. Soc. **52**, No. 3 (2007)

POSTER
PRESENTATIONS

Nuclear Structure with HELIOS: Distribution of the Neutron Single-Particle Strength in ^{20}O

Physical Sciences and Engineering Review, September 2011, Argonne National Laboratory

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

Frontiers of Nuclear Structure, Fall 2002, Berkeley, CA

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

Conference Experience for Undergraduates, APS Meeting, Fall 2001, Maui, HI

SEMINARS AND
COLLOQUIA

Florida State University, Summer 2015

TRIUMF, Summer 2014

Argonne National Laboratory, Fall 2013

National Superconducting Cyclotron and Michigan State University, Fall 2013

Argonne National Laboratory, Spring 2012

Central Michigan University, Spring 2012

Argonne National Laboratory, Fall 2011

Florida State University, Fall 2010

Argonne National Laboratory, Fall 2008

Florida State University, Fall 2006

Florida State University, Spring 2003

ACTIVITIES

FRIB Users Organization Committee Member

January 2016 - Present

NSCL Operations Sub-Committee Member

January 2016 - Present

ANL Physics Division Seminar Co-Chair

August 2016 - May 2017

APS Division of Nuclear Physics Conference Organizing Committee Member

January 2015 - January 2017

Referee for Physics Letters B

January 2012 - Present

Referee for the Physical Review Journals

American Physical Society, January 2011 - Present

ANL Physics Division Colloquium Committee Member

September 2014 - August 2015

Lecturer at Exotic Beam Summer School on Transfer Reactions

Oak Ridge National Laboratory, July 2014

ANL Physics Division Heavy-Ion Discussion Group Chair

September 2013 - May 2014

ANL Physics Division Colloquium Committee Member

September 2010 - August 2011

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

RIKEN, Tokyo, Japan, October 2010

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

RIKEN, Tokyo, Japan, June 2007

Attended The Fourth Rare Isotope Accelerator Summer School

Lawrence Berkeley National Laboratory, Berkeley, CA, Summer 2005

Attended The Third Rare Isotope Accelerator Summer School
Argonne National Laboratory, Argonne, IL, Summer 2004