

Kieran Flanagan
Academic (Teaching & Research) Professor
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Employment

Professor of Nuclear Physics

Academic (Teaching & Research) Professor
Nuclear Physics Group
The University of Manchester
1 Aug 2019 → present

Research Fellow

Academic (Teaching & Research) Reader
Nuclear Physics
1 Oct 2009 → 31 Jul 2019

Visitor

Honorary
Physics & Astronomy Research Office
1 Aug 2009 → 30 Sep 2009

Photon Science Institute

The University of Manchester
1 Aug 2018 → 31 Oct 2022

Dalton Nuclear Institute

The University of Manchester
22 Oct 2018 → 31 Oct 2022

Doctor of Philosophy, PhD Physics

Department of Physics & Astronomy
The University of Manchester
18 Sep 2000 → 31 Mar 2004

Research outputs

Nuclear moments of indium isotopes reveal abrupt change at magic number 82

Vernon, A., Binnersley, C., Billowes, J., Bissell, M., Flanagan, K., Wilkins, S. & et al., 29 Mar 2022, (Accepted/In press) In: Nature..

Electromagnetic moments of scandium isotopes and N = 28 isotones in the distinctive 0 f7/2 orbit

Billowes, J., Binnersley, C., Bissell, M., Flanagan, K., Vernon, A. & et al., 15 Mar 2022, (Accepted/In press) In: Physics Letters B.

Isotope Shifts of Radium Monofluoride Molecules

Udrescu, S. M., Brinson, A. J., Ruiz, G., Gaul, K., Berger, R., Billowes, J., Binnersley, C., Bissell, M., Breier, A. A., Chrysalidis, K., Cocolios, T. E., Cooper, B. & Flanagan, K., 20 May 2021, (Accepted/In press) In: Physical Review Letters.

Laser spectroscopy of neutron-rich $^{207,208}\text{Hg}$ isotopes: Illuminating the kink and odd-even staggering in charge radii across the N = 126 shell closure

Day Goodacre, T., Afanasjev, A. V., Barzakh, A. E., Marsh, B. A., Sels, S., Ring, P., Nakada, H., Andreyev, A. N., Van Duppen, P., Althubiti, N., Andel, B., Atanasov, D., Billowes, J., Blaum, K., Cocolios, T., Cubiss, J. G., Farooq-Smith, G., Fedorov, D. V., Fedosseev, V. N., Flanagan, K., & 24 others Gaffney, L. P., Ghys, L., Huyse, M., Kreim, S., Lunney, D., Lynch, K., Manea, V., Martinez Palenzuela, Y., Molkanov, P. L., Rosenbusch, M., Rossel, R. E., Rothe, S., Schweikhard, L., Seliverstov, M. D., Spagnoletti, P., Van Beveren, C., Veinhard, M., Verstraelen, E., Welker, A., Wendt, K., Wienholtz, F.

, Wolf, R. N., Zadornaya, A. & Zuber, K., 15 Dec 2020, (Accepted/In press) In: Physical Review Letters.

Charge radii of exotic potassium isotopes challenge nuclear theory and the magic character of N = 32

Billowes, J., Binnersley, C., Bissell, M., Cooper, B., Flanagan, K., Ricketts, C., Vernon, A. & et al., 3 Dec 2020, Springer Nature, (Nature Physics).

Tin resonance ionization schemes for atomic and nuclear structure studies

Gustafsson, F. P., Ricketts, C., Reitsma, M. L., Garcia Ruiz, R. F., Bai, S. W., Berengut, J. C., Billowes, J., Binnersley, C., Borchevsky, A., Cocolios, T. E., Cooper, B., Groote, R. P. D., Flanagan, K., Koszorus, A., Neyens, G., Perrett, H., Vernon, A., Wang, Q., Wilkins, S. G. & Yang, X. F., 20 Oct 2020, (Accepted/In press) In: Physical Review A (Atomic, Molecular and Optical Physics).

Spectroscopy of short-lived radioactive molecules

Garcia Ruiz, R., Berger, R., Billowes, J., Binnersley, C., Bissell, M., Breier, A., Brinson, A., Chrysalidis, K., Cocolios, T., Cooper, B., Flanagan, K., Giesen, T., De groote, R., Franchoo, S., Gustafsson, F., Isaev, T., Koszorús, Á., Neyens, G., Perrett, H., Ricketts, C., & 7 othersRothe, S., Schweikhard, L., Vernon, A., Wendt, K., Wienholtz, F., Wilkins, S. & Yang, X., 27 May 2020, (E-pub ahead of print) In: Nature. 581, 7809, p. 396-400
DOI: 10.1038/s41586-020-2299-4

Measurement and microscopic description of odd–even staggering of charge radii of exotic copper isotopes

De Groote, R. P., Billowes, J., Binnersley, C. L., Bissell, M. L., Cocolios, T. E., Day Goodacre, T., Farooq-smith, G. J., Fedorov, D. V., Flanagan, K. T., Franchoo, S., Garcia Ruiz, R. F., Gins, W., Holt, J. D., Koszorús, Á., Lynch, K. M., Miyagi, T., Nazarewicz, W., Neyens, G., Reinhard, P., Rothe, S., & 6 othersStroke, H. H., Vernon, A. R., Wendt, K. D. A., Wilkins, S. G., Xu, Z. Y. & Yang, X. F., 13 Apr 2020, In: Nature Physics .
DOI: 10.1038/s41567-020-0868-y

Analytic response relativistic coupled-cluster theory: the first application to indium isotope shifts

Sahoo, B. K., Vernon, A. R., Garcia Ruiz, R. F., Binnersley, C. L., Billowes, J., Bissell, M. L., Cocolios, T. E., Farooq-Smith, G. J., Flanagan, K. T., Gins, W., de Groote, R. P., Koszorús, Á., Neyens, G., Lynch, K. M., Parnefford-Gustafsson, F., Ricketts, C. M., Wendt, K. D. A., Wilkins, S. G. & Yang, X. F., 2020, In: New Journal of Physics. 22, 1, p. 012001
DOI: 10.1088/1367-2630/ab66dd

Precision measurements of the charge radii of potassium isotopes

Koszorús, Yang, X. F., Billowes, J., Binnersley, C. L., Bissell, M. L., Cocolios, T. E., Farooq-Smith, G. J., De Groote, R. P., Flanagan, K. T., Franchoo, S., Garcia Ruiz, R. F., Geldhof, S., Gins, W., Kanellakopoulos, A., Lynch, K. M., Neyens, G., Stroke, H. H., Vernon, A. R., Wendt, K. D. A. & Wilkins, S. G., Sep 2019, In: Physical Review C. 100, 3, 034304.
DOI: 10.1103/PhysRevC.100.034304

Erratum to ‘Simulation of the relative atomic populations of elements $1 \leq Z \leq 89$ following charge exchange tested with collinear resonance ionization spectroscopy of indium’ [Spectrochimica Acta Part B 153 (2019) 61–83](S0584854718305597)(10.1016/j.sab.2019.02.001)

Vernon, A. R., Billowes, J., Binnersley, C. L., Bissell, M. L., Cocolios, T. E., Farooq-Smith, G. J., Flanagan, K. T., Garcia Ruiz, R. F., Gins, W., de Groote, R. P., Koszorus, A., Lynch, K. M., Neyens, G., Ricketts, C. M., Wendt, K. D. A., Wilkins, S. G. & Yang, X. F., 3 Jun 2019, (E-pub ahead of print) In: Spectrochimica Acta - Part B : Atomic Spectroscopy. 157, p. 91-97 7 p.
DOI: 10.1016/j.sab.2019.05.014

Quadrupole moments of ^{29}Mg and ^{33}Mg

Yordanov, D. T., Kowalska, M., Blaum, K., De Rydt, M., Flanagan, K. T., Himpe, P., Lievens, P., Mallion, S., Neugart, R., Neyens, G., Vermeulen, N. & Stroke, H., Jun 2019, In: Hyperfine Interactions. 240, 1, 67.
DOI: 10.1007/s10751-019-1609-4

A compact RFQ cooler buncher for CRIS experiments

Cooper, B., Perrett, H., Ricketts, C., Read, C., Edwards, G., Flanagan, K., Billowes, J., Binnersley, C., Bissell, M., Cocolios, T., de Groote, R. P., Farooq-Smith, G., Garcia Ruiz, R. F., Gins, W., Neyens, A. K. G., P-Gustafsson, F., Stroke, H. H., Vernon, A., Wendt, K. D. A., Wilkins, S., & 1 othersYang, X. F., 4 Apr 2019, (Accepted/In press) In: Hyperfine Interactions.

Simulation of the relative atomic populations of elements $1 \leq Z \leq 89$ following charge exchange tested with collinear resonance ionization spectroscopy of indium

Vernon, A., Billowes, J., Binnersley, C., Bissell, M., Cocolios, T. E., Farooq-Smith, G. J., Flanagan, K., Garcia Ruiz, R., Gins, W., De Groote, R. P., Koszorus, A., Lynch, K. M., Neyens, G., Ricketts, C., Wendt, K. D. A., Wilkins, S. & Yang, X. F., Mar 2019, In: Spectrochimica Acta - Part B : Atomic Spectroscopy. 153, p. 61-83 22 p.
DOI: 10.1016/j.sab.2019.02.001

A compact linear Paul trap cooler buncher for CRIS

Ricketts, C., Cooper, B., Edwards, G., Perrett, H., Billowes, J., Binnersley, C., Cocolios, T., Flanagan, K., Garcia Ruiz, R. F., de Groote, R. P., Gustafsson, F. P., Koszorus, A., Neyens, G., Vernon, A. & Yang, X. F., 2019, In: Nuclear Instruments & Methods in Physics Research. Section B: Beam Interactions with Materials and Atoms.
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Nuclear charge radii of $^{62-80}\text{Zn}$ and their dependence on cross-shell proton excitations

Xie, L., Yang, X. F., Wraith, C., Babcock, C., Bieroń, J., Billowes, J., Bissell, M. L., Blaum, K., Cheal, B., Filippin, L., Flanagan, K. T., Garcia Ruiz, R. F., Gins, W., Gaigalas, G., Godefroid, M., Gorges, C., Grob, L. K., Heylen, H., Jönsson, P., Kaufmann, S., & 11 othersKowalska, M., Krämer, J., Malbrunot-Ettenauer, S., Neugart, R., Neyens, G., Nörtershäuser, W., Otsuka, T., Papuga, J., Sánchez, R., Tsunoda, Y. & Yordanov, D. T., 2019, In: Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics. 797, 134805.
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Optimising the Collinear Resonance Ionisation Spectroscopy (CRIS) experiment at CERN-ISOLDE

Vernon, A., de Groote, R. P., Billowes, J., Binnersley, C., Cocolios, T., Farooq-Smith, G., Flanagan, K., Garcia Ruiz, R. F., Gins, W., Koszorus, A., Neyens, G., Ricketts, C., Smith, A., Wilkins, S. & Yang, X. F., 2019, In: Nuclear Instruments & Methods in Physics Research. Section B: Beam Interactions with Materials and Atoms.
DOI: 10.1016/j.nimb.2019.04.049

Resonance ionization schemes for high resolution and high efficiency studies of exotic nuclei at the CRIS experiment

Koszorus, A., Billowes, J., Binnersley, C. L., Bissell, M. L., Cocolios, T. E., Cooper, B. S., De Groote, R. P., Farooq-smith, G. J., Fedosseev, V. N., Flanagan, K., Franchoo, S., Garcia Ruiz, R. F., Gins, W., Lynch, K. M., Neyens, G., Gustafsson, F. P., Ricketts, C., Stroke, H. H., Vernon, A., Wilkins, S. G., & 1 othersYang, X. F., 2019, In: Nuclear Instruments & Methods in Physics Research. Section B: Beam Interactions with Materials and Atoms.
DOI: 10.1016/j.nimb.2019.04.043

Shape staggering of mid-shell mercury isotopes from in-source laser spectroscopy compared with Density Functional Theory and Monte Carlo Shell Model calculations

Day Goodacre, T., Althubiti, N., Billowes, J., Flanagan, K. & et al., 2019, In: Physical Review C (Nuclear Physics). 99, 044306.
DOI: 10.1103/physrevc.99.044306

Characterization of the shape-staggering effect in mercury nuclei

Marsh, B. A., Day Goodacre, T., Sels, S., Tsunoda, Y., Andel, B., Andreyev, A. N., Althubiti, N. A., Atanasov, D., Barzakh, A. E., Billowes, J., Blaum, K., Cocolios, T. E., Cubiss, J. G., Dobaczewski, J., Farooq-smith, G. J., Fedorov, D. V., Fedosseev, V. N., Flanagan, K. T., Gaffney, L. P., Ghys, L., & 25 othersHuysse, M., Kreim, S., Lunney, D., Lynch, K. M., Manea, V., Martinez Palenzuela, Y., Molkanov, P. L., Otsuka, T., Pastore, A., Rosenbusch, M., Rossel, R. E., Rothe, S., Schweikhard, L., Seliverstov, M. D., Spagnoletti, P., Van Beveren, C., Van Duppen, P., Veinhard, M., Verstraelen, E., Welker, A., Wendt, K., Wienholtz, F., Wolf, R. N., Zadornaya, A. & Zuber, K., 1 Oct 2018, In: Nature Physics. 14, 12, p. 1163-1167 5 p.
DOI: 10.1038/s41567-018-0292-8

Investigating the large deformation of the $5/2^+$ isomeric state in $\text{Zn } 73$: An indicator for triaxiality

Yang, X. F., Tsunoda, Y., Babcock, C., Billowes, J., Bissell, M. L., Blaum, K., Cheal, B., Flanagan, K. T., Garcia Ruiz, R. F., Gins, W., Gorges, C., Grob, L. K., Heylen, H., Kaufmann, S., Kowalska, M., Krämer, J., Malbrunot-Ettenauer, S., Neugart, R., Neyens, G., Nörtershäuser, W., & 6 othersOtsuka, T., Papuga, J., Sánchez, R., Wraith, C., Xie, L. & Yordanov, D. T., Apr 2018, In: Physical Review C. 97, 4, 044324.
DOI: 10.1103/PhysRevC.97.044324

Laser-spectroscopy studies of the nuclear structure of neutron-rich radium

Lynch, K. M., Wilkins, S., Billowes, J., Binnersley, C., Bissell, M., Chrysalidis, K., Cocolios, T. E., Day Goodacre, T., de Groote, R. P., Farooq-Smith, G. J., Fedorov, D. V., Fedosseev, V. N., Flanagan, K., Franchoo, S., Garcia Ruiz, R., Gins, W., Heinke, R., Koszorus, A., Marsh, B. A., Molkanov, P. L., & 11 others Naubereit, P., Neyens, G., Ricketts, C., Rothe, S., Seiffert, C., Seliverstov, M. D., Stroke, H. H., Studer, D., Vernon, A., Wendt, K. D. A. & Yang, X., 7 Feb 2018, In: Physical Review C (Nuclear Physics). 97, 2, 024309.

DOI: 10.1103/PhysRevC.97.024309

From Calcium to Cadmium: Testing the Pairing Functional through Charge Radii Measurements of $^{100-130}\text{Cd}$

Hammen, M., Nörtershäuser, W., Balabanski, D. L., Bissell, M. L., Blaum, K., Budinčević, I., Cheal, B., Flanagan, K. T., Frömmgen, N., Georgiev, G., Geppert, C., Kowalska, M., Kreim, K., Krieger, A., Nazarewicz, W., Neugart, R., Neyens, G., Papuga, J., Reinhard, P., Rajabali, M. M., & 2 others Schmidt, S. & Yordanov, D. T., 2018, In: Physical Review Letters. 121, 10

DOI: 10.1103/PhysRevLett.121.102501

High-precision multi-photon ionization of accelerated laser-ablated species

Garcia Ruiz, R., Vernon, A., Binnersley, C., Sahoo, B. K., Bissell, M., Billowes, J., Cocolios, T. E., Gins, W., De Groote, R. P., Flanagan, K., Koszorus, A., Lynch, K. M., Neyens, G., Ricketts, C., Wendt, K. D. A., Wilkins, S. G. & Yang, X. F., 2018, In: Physical Review X. 8, 4, 041005.

DOI: 10.1103/PhysRevX.8.041005

Radium ionization scheme development: The first observed autoionizing states and optical pumping effects in the hot cavity environment

Day Goodacre, T., Billowes, J., Binnersley, C., Bissell, M., Chrysalidis, K., Cocolios, T. E., de Groote, R. P., Farooq-Smith, G. J., Fedorov, D. V., Fedosseev, V. N., Flanagan, K., Franchoo, S., Garcia Ruiz, R., Gins, W., Heinke, R., Koszorus, A., Lynch, K. M., Marsh, B. A., Molkanov, P., Naubereit, P., & 11 others Neyens, G., Ricketts, C., Rothe, S., Seiffert, C., Seliverstov, M. D., Stroke, H. H., Studer, D., Vernon, A., Wilkins, S., Wendt, K. D. A. & Yang, X. F., 2018, In: Spectrochimica Acta - Part B : Atomic Spectroscopy. 150, p. 99-104 5 p.

DOI: 10.1016/j.sab.2018.10.002

Probing the Ga 31 ground-state properties in the region near Z=28 with high-resolution laser spectroscopy

Farooq-Smith, G. J., Vernon, A. R., Billowes, J., Binnersley, C. L., Bissell, M. L., Cocolios, T. E., Day Goodacre, T., De Groote, R. P., Flanagan, K. T., Franchoo, S., Garcia Ruiz, R. F., Gins, W., Lynch, K. M., Marsh, B. A., Neyens, G., Rothe, S., Stroke, H. H., Wilkins, S. G. & Yang, X. F., 23 Oct 2017, In: Physical Review C. 96, 4, 044324.

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Dipole and quadrupole moments of $^{73-78}\text{Cu}$ as a test of the robustness of the Z = 28 shell closure near ^{78}Ni

De Groote, R. P., Billowes, J., Binnersley, C., Bissell, M., Cocolios, T. E., Day Goodacre, T., Farooq-Smith, G. J., Fedorov, D. V., Flanagan, K., Franchoo, S., Garcia Ruiz, R., Koszorus, A., Lynch, K. M., Neyens, G., Nowacki, F., Otsuka, T., Rothe, S., Stroke, H. H., Tsunoda, Y., Vernon, A. R., & 4 others Wendt, K. D. A., Wilkins, S. G., Xu, Z. Y. & Yang, X. F., 4 Oct 2017, In: Physical Review C. 96, 041302.

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Pygmy Gamow-Teller resonance in the N = 50 region: New evidence from staggering of β -delayed neutron-emission probabilities: New evidence from staggering of β -delayed neutron-emission probabilities

Verney, D., Testov, D., Ibrahim, F., Penionzhkevich, Y. E., Roussière, B., Smirnov, V., Didierjean, F., Flanagan, K., Franchoo, S., Kuznetsova, E., Li, R., Marsh, B., Matea, I., Pai, H., Sokol, E., {Stefan}, I. & Suzuki, D., 23 May 2017, In: Phys. Rev. C. 95, 5, 054320.

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Efficient, high-resolution resonance laser ionization spectroscopy using weak transitions to long-lived excited states

de Groote, R. P., Verlinde, M., Sonnenschein, V., Flanagan, K., Moore, I. & Neyens, G., 7 Mar 2017, In: Physical Review A. 95, 3, 032502.

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Collinear laser spectroscopy at ISOLDE: New methods and highlights.

Neugart, R., Billowes, J., Bissell, M., Blaum, K., Cheal, B., Flanagan, K., Neyens, G., Nörtershäuser, W. & Yordanov, D. T., 2017, In: Journal of Physics G: Nuclear Physics. 44, 6

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The quadrupole moment of ^{203}Fr

Wilkins, S., Lynch, K. M., Billowes, J., Binnersley, C., Bissell, M., Cocolios, T., Day Goodacre, T., Groote, R. P. D., Farooq-Smith, G. J., Flanagan, K., Franchoo, S., Garcia Ruiz, R., Gins, W., Heylen, H., Koszorus, A., Neyens, G., Stroke, H. H., Vernon, A., Wendt, K. D. A. & Yang, X. F., 2017, In: Physical Review C (Nuclear Physics). 96, 034317.
DOI: 10.1103/PhysRevC.96.034317

Laser and decay spectroscopy of the short-lived isotope ^{214}Fr in the vicinity of the $N = 126$ shell closure

Farooq-Smith, G. J., Cocolios, T. E., Billowes, J., Bissell, M., Budinčević, I., Day Goodacre, T., De Groote, R. P., Fedosseev, V. N., Flanagan, K., Franchoo, S., Garcia Ruiz, R., Heylen, H., Li, R., Lynch, K. M., Marsh, B., Neyens, G., Rossel, R. E., Rothe, S., Stroke, H. H., Wendt, K. D. A., & 2 others Wilkins, S. & Yang, X. F., 13 Oct 2016, (Accepted/In press) In: Physical Review C (Nuclear Physics).
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Cu charge radii reveal a weak sub-shell effect at $N = 40$

Bissell, M., T. Carette, Flanagan, K., P. Vingerhoets, Billowes, J., K. Blaum, Cheal, B., S. Fritzsche, M. Godefroid, M. Kowalska, J. Kramer, R. Neugart, G. Neyens, W. Nortershauser & D. T. Yordanov, 17 Jun 2016, In: Physical Review C - Nuclear Physics. 93, p. 064318-1 - 064318-7 7 p.
DOI: 10.1103/PhysRevC.93.064318

Isomer Shift and Magnetic Moment of the Long-Lived $1/2^+$ Isomer in $\text{Zn}493079$: Signature of Shape Coexistence near $\text{Ni}78$: Signature of Shape Coexistence near $\text{Ni}78$

Yang, X. F., Wraith, C., Xie, L., Babcock, C., Billowes, J., Bissell, M., Blaum, K., Cheal, B., Flanagan, K., Garcia Ruiz, R. F., Gins, W., Gorges, C., Grob, L. K., Heylen, H., Kaufmann, S., Kowalska, M., Kraemer, J., Malbrunot-Ettenauer, S., Neugart, R., Neyens, G., & 4 others Nörtershäuser, W., Papuga, J., Sánchez, R. & Yordanov, D. T., 5 May 2016, In: Physical Review Letters. 116, 18, 182502.
DOI: 10.1103/PhysRevLett.116.182502

Combined high-resolution laser spectroscopy and nuclear decay spectroscopy for the study of the low-lying states in $\text{Fr}206$, at 202 , and $\text{Bi}198$

Lynch, K. M., Cocolios, T. E., Billowes, J., Bissell, M. L., Budinčević, I., Day Goodacre, T., De Groote, R. P., Farooq-Smith, G. J., Fedosseev, V. N., Flanagan, K. T., Franchoo, S., Garcia Ruiz, R. F., Heylen, H., Li, R., Marsh, B. A., Neyens, G., Rossel, R. E., Rothe, S., Stroke, H. H., Wendt, K. D. A., & 2 others Wilkins, S. G. & Yang, X., 27 Jan 2016, In: Physical Review C - Nuclear Physics. 93, 1, 014319.
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Simple Nuclear Structure in $^{111-129}\text{Cd}$ from Atomic Isomer Shifts

Yordanov, D. T., Balabanski, D. L., Bissell, M. L., Blaum, K., Budinčević, I., Cheal, B., Flanagan, K., Frömmgen, N., Georgiev, G., Geppert, C., Hammen, M., Kowalska, M., Kreim, K., Krieger, A., Meng, J., Neugart, R., Neyens, G., Nörtershäuser, W., Rajabali, M. M., Papuga, J., & 2 others Schmidt, S. & Zhao, P. W., 22 Jan 2016, In: Physical Review Letters. 116, 3, 032501.
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In-source laser spectroscopy with the Laser Ion Source and Trap: first direct study of the ground-state properties of $^{217,219}\text{Po}$

Fink, D. A., Cocolios, T. E., Gottberg, A., Huyse, M., Imai, N., Kron, T., Lécésne, N., Lynch, K. M., Marsh, B. A., Pauwels, D., Rapisarda, E., Richter, S. D., Andreyev, A. N., Rossel, R. E., Rothe, S., Seliverstov, M. D., Sjödin, A. M., Van Beveren, C., Van Duppen, P., Wendt, K. D. A., & 7 others Antalic, S., Barzakh, A. E., Bastin, B., Fedorov, D. V., Fedosseev, V. N., Flanagan, K. T. & Ghys, L., 20 Feb 2015, In: Physical Review X. 5, 1, 011018.
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High-field level crossing in atomic hydrogen

Lynch, K. M., Flanagan, K. & Stroke, H. H., 2015, In: American Journal of Physics. 83, 4, p. 375-376 2 p.
DOI: 10.1119/1.4901810

Use of a Continuous Wave Laser and Pockels Cell for Sensitive High-Resolution Collinear Resonance Ionization Spectroscopy

De Groote, R. P., Budinčević, I., Billowes, J., Bissell, M. L., Cocolios, T. E., Farooq-Smith, G. J., Fedosseev, V. N., Flanagan, K. T., Franchoo, S., Garcia Ruiz, R. F., Heylen, H., Li, R., Lynch, K. M., Marsh, B. A., Neyens, G., Rossel, R. E.,

Rothe, S., Stroke, H. H., Wendt, K. D. A., Wilkins, S. G., & 1 others Yang, X., 2015, In: Physical Review Letters. 115, 3, 6 p., 132501.

DOI: 10.1103/PhysRevLett.115.132501

Laser spectroscopy of francium isotopes at the borders of the region of reflection asymmetry

Budinčević, I., Billowes, J., Bissell, M. L., Cocolios, T. E., De Groote, R. P., De Schepper, S., Fedosseev, V. N., Flanagan, K. T., Franchoo, S., Garcia Ruiz, R. F., Heylen, H., Lynch, K. M., Marsh, B. A., Neyens, G., Procter, T. J., Rossel, R. E., Rothe, S., Strashnov, I., Stroke, H. H. & Wendt, K. D. A., 23 Jul 2014, In: Physical Review C - Nuclear Physics. 90, 1, 014317.

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Electromagnetic moments of odd- A Po 193-203,211 isotopes

Seliverstov, M. D., Cocolios, T. E., Dexters, W., Andreyev, A. N., Antalic, S., Barzakh, A. E., Bastin, B., Büscher, J., Darby, I. G., Fedorov, D. V., Fedosseev, V. N., Flanagan, K. T., Franchoo, S., Huber, G., Huyse, M., Keupers, M., Köster, U., Kudryavtsev, Y., Marsh, B. A., Molkanov, P. L., & 6 others Page, R. D., Sjödin, A. M., Stefan, I., Van Duppen, P., Venhart, M. & Zemlyanoy, S. G., 31 Mar 2014, In: Physical Review C - Nuclear Physics. 89, 3, 034323.

DOI: 10.1103/PhysRevC.89.034323

Decay-assisted collinear resonance ionization spectroscopy: Application to neutron-deficient francium

Lynch, K. M., Billowes, J., Bissell, M. L., Budincevic, I., Cocolios, T. E., Groote, R. P. D., Schepper, S. D., Fedosseev, V. N., Flanagan, K. T., Franchoo, S., Ruiz, R. F. G., Heylen, H., Marsh, B. A., Neyens, G., Procter, T. J., Rossel, R. E., Rothe, S., Strashnov, I., Stroke, H. H. & Wendt, K. D. A., 2014, In: Physical Review X. 4, 1, 15 p., 011055.

Decay-assisted laser spectroscopy of neutron-deficient francium

Lynch, K., Billowes, J., Bissell, M. L., Budinčević, I., Cocolios, T., Groote, R. P. D., Schepper, S. D., Fedosseev, V. N., Flanagan, K. T., Franchoo, S., Ruiz, R. F. G., Heylen, H., Marsh, B. A., Neyens, G., Procter, T. J., Rossel, R. E., Rothe, S., Strashnov, I., Stroke, H. H. & Wendt, K. D. A., 2014, In: Physical Review X. 4, 1, 011055.

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First results from the CRIS experiment

Flanagan, K., Billowes, J., Bissell, M. L., Budinčević, I., Cocolios, T. E., de Groote, R. P., De Schepper, S., Fedosseev, V. N., Franchoo, S., Garcia Ruiz, R. F., Heylen, H., Lynch, K. M., Marsh, B. A., Neyens, G., Procter, T. J., Rossel, R. E., Rothe, S., Strashnov, I., Stroke, H. H. & Wendt, K. D. A., 2014, In: Hyperfine Interactions. 227, 1-3, p. 131-137 7 p.

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First application of the Laser Ion Source and Trap (LIST) for on-line experiments at ISOLDE

Cocolios, T., Fink, D. A., Richter, S. D., Bastin, B., Blaum, K., Catherall, R., Cocolios, T. E., Fedorov, D. V., Fedosseev, V. N., Flanagan, K. T., Ghys, L., Gottberg, A., Imai, N., Kron, T., Lechesne, N., Lynch, K. M., Marsh, B. A., Mendonca, T. M., Pauwels, D., Rapisarda, E., & 8 others Ramos, J. P., Rossel, R. E., Rothe, S., Seliverstov, M. D., Sjödin, M., Stora, T., Van Beveren, C. & Wendt, K. D. A., 15 Dec 2013, In: Nuclear Inst. and Methods in Physics Research, B. 317, p. 417-421 4 p.

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New developments of the in-source spectroscopy method at RILIS/ISOLDE

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The Collinear Resonance Ionization Spectroscopy (CRIS) experimental setup at CERN-ISOLDE

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Collinear resonance ionization spectroscopy of neutron-deficient francium isotopes

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Charge radii of odd-A 191-211Po isotopes

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Procter, T. J., Aghaei-Khozani, H., Billowes, J., Bissell, M. L., Blanc, F. L., Cheal, B., Cocolios, T. E., Flanagan, K. T., Hori, H., Kobayashi, T., Lunney, D., Lynch, K. M., Marsh, B. A., Neyens, G., Papuga, J., Rajabali, M. M., Rothe, S., Simpson, G., Smith, A. J., Stroke, H. H., & 2 othersVanderheijden, W. & Wendt, K., 2012, *Journal of Physics: Conference Series/J. Phys. Conf. Ser.* <http://iopscience.iop.org/>: IOP Publishing Ltd, Vol. 381. 6 p. (Journal of Physics: Conference Series).
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Early onset of deformation in the neutron-deficient polonium isotopes

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Nuclear moments, charge radii and spins of the ground and isomeric states in ^{175}Yb and ^{177}Yb

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Structure of ^{191}Pb from α - And β -decay spectroscopy

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The shape transition in the neutron-rich yttrium isotopes and isomers

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Collinear laser spectroscopy of neutron-rich cerium isotopes near the N = 88 shape transition

Cheal, B., Avgoulea, M., Billowes, J., Campbell, P., Flanagan, K. T., Forest, D. H., Gardner, M. D., Huikari, J., Marsh, B. A., Nieminen, A., Thayer, H. L., Tungate, G. & Äystö, J., Nov 2003, In: Journal of Physics G: Nuclear and Particle Physics. 29, 11, p. 2479-2484 5 p.

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Laser spectroscopy of radioactive Ti, Zr and Hf isotopes and isomers at the JYFL laser-IGISOL facility

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Laser spectroscopy of neutron deficient zirconium isotopes

Forest, D. H., Billowes, J., Campbell, P., Dendooven, P., Flanagan, K. T., Griffith, J. A. R., Huikari, J., Jokinen, A., Moore, R., Nieminen, A., Thayer, H. L., Tungate, G., Zemlyanoi, S. & Äystö, J., Dec 2002, In: Journal of Physics G: Nuclear and Particle Physics. 28, 12, p. L63-L68

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Character of an 8- isomer of ¹³⁰Ba

Moore, R., Bruce, A. M., Dendooven, P., Billowes, J., Campbell, P., Ezwam, A., Flanagan, K. T., Forest, D. H., Huikari, J., Jokinen, A., Nieminen, A., Thayer, H. L., Tungate, G., Zemlyanoi, S. & Äystö, J., 7 Nov 2002, In: Physics Letters. Section B: Nuclear, Elementary Particle and High-Energy Physics. 547, 3-4, p. 200-204 4 p.

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Activities

CERN (European Organisation for Nuclear Research) (External organisation)

Kieran Flanagan (Academic expert member)

1 Jan 2020 → 31 Dec 2023

EPIC workshop summary talk

Kieran Flanagan (Speaker)

5 Dec 2019

Collinear laser spectroscopy techniques

Kieran Flanagan (Speaker)

9 Oct 2019

The commercial application of ultra-sensitive laser spectroscopy techniques for radioisotope dating

Kieran Flanagan (Speaker)

30 Jul 2019

Laser spectroscopy of hot molecules: new results and future prospects

Kieran Flanagan (Speaker)

17 Apr 2019

Science & Technology Facilities Council (STFC) (External organisation)

Kieran Flanagan (Academic expert member)

20 Feb 2019 → 19 Feb 2022

Laser spectroscopy measurements of nuclei near ^{100}Sn and ^{132}Sn

Kieran Flanagan (Speaker)

28 Sep 2018

Laser Spectroscopy and future perspectives

Kieran Flanagan (Speaker)

13 Sep 2018

Euroschool Lectures on Resonance Ionization Spectroscopy for production and nuclear spectroscopy

Kieran Flanagan (Speaker)

29 Aug 2018 → 30 Aug 2018

Nuclear ground-state electrostatic properties

Kieran Flanagan (Speaker)

25 Apr 2018

Extending the Limits of Laser Spectroscopy to the Production Frontier

Kieran Flanagan (Speaker)

22 Jun 2017

Founding Director

Kieran Flanagan (Academic founder)

12 Aug 2016

Recent results from the CRIS experiment

Kieran Flanagan (Speaker)

1 Apr 2016

Collinear resonance ionization spectroscopy of francium

Kieran Flanagan (Speaker)

27 Aug 2015

Prizes

Awards

Projects

STFC Food Network +

Bridle, S., Flanagan, K. & Grieve, B.

1/01/17 → 31/12/19

Impacts