

Prof. P.H. Regan, List of Publications in Refereed Journals to 8 October 2009.

* = Major contribution as spokesperson, research student/research fellow supervisor etc.

20 Most Significant Publications (in Chronological Order).

1. **Lifetime Measurements in ^{135}Sm : Large Deformation in the $N=6$ Intruder Band and Evidence for Quenched Proton Pairing.*
P.H. Regan, R. Wyss, R. Wadsworth, D. Fossan, Y.-J. He, J.R. Hughes, I. Jenkins, R. Ma, M.S. Metcalfe, S.M. Mullins, P.J. Nolan, E. Paul, R.J. Poynter and N. Xu, *Physical Review C* **42** (1990), Rapid Communications, p1805-1808 [**26 citations**]
2. **High Spin Proton and Neutron Intruder Configurations in ^{106}Cd .*
P.H. Regan, A.E. Stuchbery, G.D. Dracoulis, A.P. Byrne, G.J. Lane, T. Kibédi, D.C. Radford, A. Galindo-Uribarri, V.P. Janzen, D. Ward, S.M. Mullins, G. Hackman, J. DeGraaf, M. Cromaz and S. Pilotte, *Nuclear Physics A* **586** (1995) p351-376 [**22 citations**]
3. **Measurement of the g -Factor of the Yrast 10^+ State in ^{110}Cd .*
P.H. Regan, A.E. Stuchbery and S.S. Anderssen, *Nuclear Physics A* **591** (1995) p533-547 [**10 citations**]
4. **Observation of $(h_{\frac{11}{2}})^2$ Neutron Alignments in ^{100}Mo , ^{104}Ru and ^{108}Pd Using Deep Inelastic Reactions.*
P.H. Regan, T.M. Menezes, C.J. Pearson, W. Gelletly, C.S. Purry, P.M. Walker, S. Juutinen, R. Julin, K. Helariutta, A. Savelius, P. Jones, P. Jämsen, M. Muikku, P.A. Butler, G. Jones and P. Greenless, *Physical Review C* **55** (1997) p2305-2313 [**26 citations**]
5. **Evidence for a Highly Deformed Oblate 0^+ State in $^{74}_{36}\text{Kr}$.*
C. Chandler, **P.H. Regan**, C.J. Pearson, B. Blank, A.M. Bruce, W.N. Catford, N. Curtis, S. Czajkowski, W. Gelletly, R. Grzywacz, M. Lewitowicz, C. Marchand, N.A. Orr, R.D. Page, A.T. Reed, M.G. Saint-Laurent, S.M. Vincent, R. Wadsworth, D.D. Warner and J.S. Winfield, *Physical Review C* **56** (1997) Rapid Communications p2924-2928 [**82 citations**].
6. **Observation of Fermi Superallowed β -Decays in Heavy Odd-Odd, $N=Z$ Nuclei: Evidence for 0^+ Ground States in ^{78}Y , ^{82}Nb and ^{86}Tc .*
C. Longour, J. Garcés Narro, B. Blank, M. Lewitowicz, Ch. Miehé, **P.H. Regan**, D. Applebe, L. Axelsson, A.M. Bruce, W.N. Catford, C. Chandler, R.M. Clark, D. Cullen, S. Czajkowski, J.M. Daugas, Ph. Dessagne, A. Fleury, L. Frankland, W. Gelletly, J. Giovinazzo, B. Greenhalgh, R. Grzywacz, M. Harder, K.L. Jones, N. Kelsall, T. Kszczot, R.D. Page, C.J. Pearson, A.T. Reed, O. Sorlin and R. Wadsworth, *Physical Review Letters* **81** (1998) p3337-3340 [**43 citations**]
7. **Competing $T=0$ and $T=1$ Structures in the $N=Z$ Nucleus $^{62}_{31}\text{Ga}$.*
S.M. Vincent, **P.H. Regan**, D.D. Warner, R. Bark, D. Blumenthal, M. Carpenter, C.N. Davids, W. Gelletly, R.V.F. Janssens, C. O'Leary, C.J. Lister, J. Simpson, D. Seweryniak, T. Saitoh, J. Schwartz, S. Törmänen, O. Jullet, F. Nowacki and P. Van Isacker, *Physics Letters* **437B** (1998) p264-272 [**55 citations**]

8. **Observation of the $Z=N+1$ Nuclei $^{77}_{39}\text{Y}$, $^{79}_{40}\text{Zr}$ and $^{83}_{42}\text{Mo}$.*
 Z. Janas, C. Chandler, B. Blank, **P.H. Regan**, A.M. Bruce, W.N. Catford, N. Curtis, S. Czajkowski, Ph. Dessagne, A. Fleury, W. Gelletly, J. Giovinazzo, R. Grzywacz, M. Lewitowicz, C. Longour, C. Marchand, Ch. Miehé, N.A. Orr, R.D. Page, C.J. Pearson, M.S. Pravikoff, A.T. Reed, M.G. Saint-Laurent, J.A. Sheikh, S.M. Vincent, R. Wadsworth, D.D. Warner and J.S. Winfield, *Physical Review Letters* **82** (1999) p295-298 [**23 citations**]
9. **Observation of Isomeric States in Neutron Deficient $A\sim 80$ Nuclei Following the Projectile Fragmentation of a ^{92}Mo Beam.*
 C. Chandler, **P.H. Regan**, B. Blank, C.J. Pearson, A.M. Bruce, W.N. Catford, N. Curtis, S. Czajkowski, P. Dessange, A. Fleury, W. Gelletly, J. Giavinazzo, R. Grzywacz, Z. Janas, M. Lewitowicz, C. Longour, C. Marchand, C. Miehé, N.A. Orr, R.D. Page, M.S. Praavikoff, A.T. Reed, M.G. Saint-Laurent, S.M. Vincent, R. Wadsworth, D.D. Warner, J.S. Winfield and F. Xu, *Physical Review* **C61** (2000) 044309 p1-14 [**50 citations**]
10. **Isomer Spectroscopy of Neutron Rich $^{190}\text{W}_{116}$.*
 Zs. Podolyák, **P.H. Regan**, M. Pfutzner, J. Gerl, M. Hellström, M. Caamano, P. Mayet, Ch. Schlegel, A. Aprahamian, J. Benlliure, A.M. Bruce, P.A. Butler, D. Cortina Gil, D.M. Cullen, J. Döring, T. Enqvist, F. Farget, C. Fox, J. Garcés Narro, H. Geissel, W. Gelletly, J. Giovinazzo, M. Gorska, H. Grawe, R. Grzywacz, A. Kleinböhl, W. Korten, M. Lewitowicz, R. Lucas, H. Mach, M. Mineva, C.D. O'Leary, F. De Oliveira, C.J. Pearson, M. Rejmund, M. Sawicka, H. Schaffner, K. Schmidt, Ch. Theisen, P.M. Walker, D.D. Warner, C. Wheldon, H.J. Wollersheim, S.C. Wooding and F.R. Xu, *Physics Letters* **B491** (2000) p225-231 [**48 citations**]
11. **Fermi Superallowed β^+ -Decays and $T=1$ Ground States of Heavy $N=Z$ Nuclei.*
 J. Garcés Narro, C. Longour, **P.H. Regan**, B. Blank, C.J. Pearson, M. Lewitowicz, Ch. Miehé, W. Gelletly, D. Applebe, L. Axelsson, A.M. Bruce, W.N. Catford, C. Chandler, R.M. Clark, D. Cullen, S. Czajkowski, J.M. Daugas, Ph. Dessagne, A. Fleury, L. Frankland, J. Giovinazzo, B. Greenhalgh, R. Grzywacz, M. Harder, K.L. Jones, N. Kelsall, T. Kszczot, R.D. Page, C.J. Pearson, A.T. Reed, O. Sorlin and R. Wadsworth, *Physical Review* **C63** (2001) 044307 p1-9 [**14 citations**]
12. **Angular Momentum Population in the Fragmentation of ^{208}Pb at 1 GeV/Nucleon.*
 M. Pfützner, **P.H. Regan**, P.M. Walker, M. Caamaño, J. Gerl, M. Hellström, P. Mayet, K.-H. Schmidt, Zs. Podolyák, A. Aprahamian, J. Benlliure, A.M. Bruce, P.A. Butler, D. Cortina Gil, D.M. Cullen, J. Döring, T. Enqvist, F. Farget, C. Fox, J. Garcés Narro, H. Geissel, W. Gelletly, J. Giovinazzo, M. Gorska, H. Grawe, R. Grzywacz, A. Kleinböhl, W. Korten, M. Lewitowicz, R. Lucas, H. Mach, M. Mineva, C.D. O'Leary, F. De Oliveira, C.J. Pearson, M. Rejmund, M. Sawicka, H. Schaffner, Ch. Schlegel, K. Schmidt, Ch. Theisen, D.D. Warner, C. Wheldon, H.J. Wollersheim and S.C. Wooding, *Physical Review* **C65** (2002) 064604, p1-15 [**20 citations**]

13. **A Signature for Vibrational to Rotational Evolution Along the Yrast Line.*
P.H. Regan, C.W. Beausang, N.V. Zamfir, R.F. Casten, Jing-Ye Zhang, A.D. Yamamoto, M.A. Caprio, G. Gürdal, A.A. Hecht, C. Hutter, R. Krücken, S.D. Langdown, D. Meyer and J.J. Ressler, *Physical Review Letters* **90** (2003) 152502 p1-4 [**39 citations**]
14. **Binary-Reaction Spectroscopy of $^{99,100}\text{Mo}$: Intruder Band Systematics in the $N=57$ and $N=58$ Isotones.*
P.H. Regan, A.D. Yamamoto, F.R. Xu, C.Y. Wu, A.O. Macchiavelli, D. Cline, J.F. Smith, J.J. Valiente-Dobón, K. Andgren, R.S. Chakrawarthy, M. Cromaz, P. Fallon, S.J. Freeman, W. Gelletly, A. Görngen, A. Hayes, H. Hua, S.D. Langdown, I-Y. Lee, C.J. Pearson, R. Teng and C. Wheldon, *Physical Review* **C68** (2003) 044313 p1-5 [**16 citations**]
15. **Study of ^{136}Ba via Deep-Inelastic Collisions: Identification of the $(\nu h_{1/2})_{10^+}^{-2}$ Isomer.*
J.J. Valiente-Dobón, **P.H. Regan**, C. Wheldon, C.Y.-Wu, N. Yoshinaga, J.F. Smith, A.O. Macchiavelli, D. Cline, R.S. Chakrawarthy, R. Chapman, M. Cromaz, P. Fallon, S.J. Freeman, A. Görngen, W. Gelletly, A. Hayes, K. Higashiyama, S.D. Langdown, I.Y. Lee, X. Liang, C.J. Pearson, Zs. Podolyák, T. Teng, D. Ward, D.D. Warner and A.D. Yamamoto, *Physical Review* **C69** (2004) 024316 p1-13. [**17 citations**]
16. **Isomers in Neutron-Rich $A \approx 190$ Nuclides from ^{208}Pb Fragmentation.*
M. Caamaño, P.M.Walker, **P.H. Regan**, M. Pfützner, Zs. Podolyák, J. Gerl, M. Hellström, P. Mayet, M.N. Mineva, A. Aprahamian, J. Benlliure, A.M. Bruce, P.A. Butler, D. Cortina Gil, D.M. Cullen, J. Döring, T. Enqvist, C. Fox, J.Garcés Narro, H. Geissel, W. Gelletly, J. Giovinazzo, M. Górska, H. Grawe, R. Grzywacz, A. Kleinböhl, W. Korten, M. Lewitowicz, R. Lucas, H. Mach, C.D. O'Leary, F. De Oliveira, C.J. Pearson, F. Rejmund, M. Rejmund, M. Sawicka, H. Schaffner, Ch. Schlegel, K. Schmidt, K.H. Schmidt, P.D. Stevenson, Ch. Thiesen, F. Vivés, D.D. Warner, C. Wheldon, H.J. Wollersheim, S. Wooding, F. Xu and O. Yordanov, *European Physical Journal* **A23** (2005) p201-215 [**22 citations**]
17. **Observation of Isomeric Decays in the r -Process Waiting Point Nucleus $^{130}\text{Cd}_{82}$.*
A. Jungclaus, L. Cáceres, M. Górska, M. Pfützner, S. Pietri, E. Werner-Malento, T.R. Rodriguez, J.L. Egido, H. Grawe, K. Langanke, G. Martinez-Pinedo, F. Nowacki, A. Poves, J. Quenca, D. Rudolph, Z. Podolyák, **P.H. Regan**, P. Detistov, S. Lalkovski, V. Modamio, J. Walker, P. Bednarczyk, P. Doornenbal, H. Geissel, J. Gerl, J. Grebosz, I. Kojouharov, N. Kurz, W. Prokopowicz, H. Schaffner, H.J. Wollersheim, K. Andgren, J. Benlliure, G. Benzoni, A.M. Bruce, E. Casarejos, B. Cederwall, F.C.L. Crespi, B. Hadina, M. Hellström, R. Hoischen, G. Ilie, A. Khaplanov, M. Kmiecik, R. Kumar, A. Maj, S. Mandal, F. Montes, S. Myalski, G. Simpson, S.J. Steer, S. Tashenov and O. Wieland, *Physical Review Letters* **99** (2007) 132501 p1-4 [**23 citations**]
18. **Yrast Studies of $^{80,82}\text{Se}$ Using Deep-Inelastic Reactions.*
G.A. Jones, **P.H. Regan**, Zs. Podolyák, N. Yoshinaga, K. Higashiyama, G. deAngelis, Y.H. Zhang, A. Gadea, C.A. Ur, M.Axiotis, D.Bazzacco, R. Broda, D.Bucurescu, E. Farnea, W. Gelletly, M. Ionescu-Bujor, A. Iordachescu, Th. Kröll, S.D. Langdown, S. Lenzi, S. Lunardi, N.Marginean, T. Martinez, N. Medina, R. Menegazzo, D.R. Napoli, B. Quintana,

B. Rubio, C. Rusu, R. Schenger, D. Tonev, J.J. Valiente Dobon and W. von Oertzen, *Physical Review C* **76** (2007) 054317 p1-5 [4 citations]

19. **Neutron-Proton Pairing Competition in $N=Z$ Nuclei: Metastable State Decays in the Proton Dripline Nuclei $^{82}_{41}\text{Nb}$ and $^{86}_{43}\text{Tc}$.*

A.B. Garnsworthy, **P.H. Regan**, L. Cáceres, S. Pietri, Y. Sun, D. Rudolph, M. Górska, Zs. Podolák, S.J. Steer, R. Hoischen, A. Heinz, F. Becker, P. Bednarczyk, P. Doornenbal, H. Geissel, J. Gerl, H. Grawe, J. Grebosz, A. Kelic, I. Kojouharov, N. Kurz, F. Montes, W. Prokopowicz, T. Saito, H. Schaffner, S. Tachenov, E. Werner-Malento, H.J. Wollersheim, G. Benzoni, B. Blank, C. Brandau, A.M. Bruce, F. Camera, W.N. Catford, I.J. Cullen, Zs. Dombradi, E. Estevez, W. Gelletly, G. Ilie, J. Jolie, G.A. Jones, A. Jungclaus, M. Kmiecik, F.G. Kondev, T. Kurtukian-Nieto, S. Lalkovski, Z. Liu, A. Maj, S. Myalski, M. Pfützner, T. Shizuma, A.J. Simons, S. Schwertel, P.M. Walker, O. Wieland and F.R. Xu *Physics Letters B* **660** (2008) p326-330; erratum, **668** (2008) p460. [6 citations].

20. **Isospin Symmetry and Proton Decay: Identification of the 10^+ Isomer in ^{54}Ni .*

D. Rudolph, R. Hoischen, M. Hellström, S. Pietri, Zs. Podolyák, **P.H. Regan**, A.B. Garnsworthy, S.J. Steer, F. Becker, P. Bednarczyk, L. Cáceres, P. Doornenbal, J. Gerl, M. Górska, J. Grebosz, I. Kojouharov, N. Kurz, W. Prokopowicz, H. Schaffner, H.J. Wollersheim, L.L. Andersson, D.L. Balabanski, M.A. Bentley, A. Blazhev, C. Brandau, J. Brown, C. Fahlander, E.K. Johansson, A. Jungclaus and S.M. Lenzi, *Physical Review C* **78** (2008) 021301(R) (Rapid Communications) 4 pages [2 citations]

Other Peer Reviewed Publications.

21. **Evidence for an $i_{13/2}$ Neutron Band in ^{133}Sm .*

R. Wadsworth, **P.H. Regan**, S.M. Mullins, G.J. Gyapong, D.L. Watson, P.J. Nolan, M.J. Godfrey, I. Jenkins, Y-J. He, B.J. Varley, W. Gelletly and J. Simpson, *Zeitschrift fur Physik A* **333** (1989) p409-410 [10 citations]

22. **Yrast Band Spectroscopy of ^{132}Sm and ^{130}Nd .*

R. Wadsworth, **P.H. Regan**, S.M. Mullins, G.J. Gyapong, D.L. Watson, P.J. Nolan, M.J. Godfrey, I. Jenkins, Y-J. He, B.J. Varley, W. Gelletly and J. Simpson, *Zeitschrift fur Physik A* **333** (1989) p411-412 [14 citations]

23. *Landau-Zener Crossing in Superdeformed ^{193}Hg : Evidence for Octupole Correlations in Superdeformed Nuclei.*

D.M. Cullen, M.A. Riley, A. Alderson, I. Ali, T. Bengtsson, M.A. Bentley, A.M. Bruce, P. Fallon, P.D. Forsyth, F. Hanna, S.M. Mullins, W. Nazarewicz, R.J. Poynter, **P.H. Regan**, J.W. Roberts, W. Satula, J.F. Sharpey-Schafer, J. Simpson, G. Sletten, P.J. Twin, R. Wadsworth and R. Wyss, *Physical Review Letters* **65** (1990) p1547-1550 [68 citations]

24. *An $i_{13/2}$ Intruder Band in ^{139}Gd .*

R. Ma, D.B. Fossan, E.S. Paul, N. Xu, R.J. Poynter, **P.H. Regan**, R. Wadsworth, Y-J. He, I. Jenkins, M.S. Metcalfe, S.M. Mullins and P.J. Nolan, *Journal of Physics G* **16** (1990) p1233-1240 [21 citations]

25. *Rotational Bands in the Doubly Odd $N=73$ Nucleus ^{134}Pm .*
R. Wadsworth, S.M. Mullins, P.J. Bishop, A. Kirwan, M.J. Godfrey, P.J. Nolan and **P.H. Regan**, *Nuclear Physics* **A526** (1991) p188-204 [**16 citations**]
26. **Spectroscopy of the Light Rare Earth Nuclei ^{133}Sm and ^{133}Pm : Configuration Dependent Pairing and Evidence for Strong Residual Proton-Neutron Interactions in Neighbouring Odd- N and Odd- Z Nuclei.*
P.H. Regan, R. Wadsworth, J.R. Hughes, G.J. Gyapong, W. Gelletly, M.J. Godfrey, I. Jenkins, Y-J. He, S.M. Mullins, P.J. Nolan, J. Simpson, B.J. Varley and D.L. Watson, *Nuclear Physics* **A533** (1991) p476-504 [**13 citations**]
27. *Electromagnetic Properties of $N=75$ Isotones: Evidence for Triaxiality at Low Spin.*
E.S. Paul, R. Ma, C.W. Beausang, S.A. Forbes, D.B. Fossan, J. Gizon, J.R. Hughes, Y. Liang, S.M. Mullins, P.J. Nolan, W.F. Piel, R.J. Poynter, **P.H. Regan**, R. Wadsworth and N. Xu, *Journal of Physics* **G17** (1991) p605-617 [**4 citations**]
28. *Superdeformation and Double Blocking in ^{142}Eu .*
S.M. Mullins, R.A. Wyss, P. Fallon, T. Byrski, D. Curien, S.A. Forbes, Y-J. He, M.S. Metcalfe, P.J. Nolan, E.S. Paul, R.J. Poynter, **P.H. Regan** and R. Wadsworth, *Physical Review Letters* **66** (1991) p1677-1680 [**28 citations**]
29. *Quadrupole Moment of the $i_{\frac{13}{2}}$ Intruder Band in ^{139}Gd .*
E.S. Paul, S.A. Forbes, D.B. Fossan, J. Gizon, J.R. Hughes, S.M. Mullins, M.S. Metcalfe, P.J. Nolan, **P.H. Regan**, G. Smith and R. Wadsworth, *Journal of Physics* **G18** (1992) p121-129 [**12 citations**]
30. *First Observation of a Collective Dipole Rotational Band in the $A\sim 200$ Mass Region.*
R.M. Clark, R. Wadsworth, E.S. Paul, C.W. Beausang, I. Ali, A. Astier, D.M. Cullen, P.J. Dagnall, P. Fallon, M.J. Joyce, N. Redon, **P.H. Regan**, W. Nazarewicz and R. Wyss, *Physics Letters* **B275** (1992) p247-250 [**70 citations**]
31. *Collective and Non-Collective High-Spin States in ^{115}I .*
E.S. Paul, R.M. Clark, S.A. Forbes, D.B. Fossan, J.R. Hughes, D.R. Lafosse, Y. Liang, R. Ma, P.J. Nolan, **P.H. Regan**, P. Vaska, R. Wadsworth and M.P. Waring, *Journal of Physics* **G18** (1992) p837-846 [**38 citations**]
32. * *Measurement of the Intrinsic Quadrupole Moments in the $vi_{\frac{13}{2}}$ Bands of $^{135,137}\text{Sm}$.*
P.H. Regan, R. Wadsworth, S.M. Mullins, J. Nyberg, A. Atac, S.A. Forbes, D.B. Fossan, Y-J. He, J.R. Hughes, I. Jenkins, R. Ma, M.S. Metcalfe, P.J. Nolan, E.S. Paul, R.J. Poynter, D. Santonicio, A. Virtanen and N. Xu, *Journal of Physics* **G18** (1992) p847-858 [**11 citations**]
33. *Collective Dipole Rotational Bands in ^{197}Pb .*
R.M. Clark, R. Wadsworth, E.S. Paul, C.W. Beausang, I. Ali, A. Astier, D.M. Cullen, P.J. Dagnall, P. Fallon, M.J. Joyce, N. Redon, **P.H. Regan**, W. Nazarewicz and R. Wyss, *Zeitschrift fur Physik* **A342** (1992) p371-372 [**31 citations**]

34. *Band Termination in Doubly-Odd ^{116}I* .
E.S. Paul, R.M. Clark, S.A. Forbes, D.B. Fossan, J.R. Hughes, D.R. Lafosse, Y. Liang, P.J. Nolan, **P.H. Regan**, P. Vaska, R. Wadsworth and M.P. Waring, *Journal of Physics* **G19** (1993) p343-348 [**10 citations**]
35. *Coexistence of Collective and Superdeformed Prolate Shapes in ^{196}Pb* .
P.J. Dagnall, C.W. Beausang, P. Fallon, P.D. Forsyth, E.S. Paul, J.F. Sharpey-Schafer, P.J. Twin, I. Ali, D.M. Cullen, M.J. Joyce, G. Smith, R. Wadsworth, R.M. Clark, **P.H. Regan**, A. Astier, M. Meyer and N. Redon, *Journal of Physics* **G19** (1993) p465-70 [**17 citations**]
36. *Prolate and Oblate Rotational Bands in ^{136}Sm* .
E.S. Paul, S. Davis, P. Vaska, P.J. Bishop, S.A. Forbes, D.B. Fossan, Y.-J. He, J.R. Hughes, I. Jenkins, Y. Liang, R. Ma, M.S. Metcalfe, S.M. Mullins, P.J. Nolan, R.J. Poynter, **P.H. Regan**, R. Wadsworth and N. Xu, *Journal of Physics* **G19** (1993) p861-876 [**18 citations**]
37. *Population Effects in the Highly-Deformed Bands of ^{131}Ce and ^{135}Nd from $^{18,16}\text{O}$ -Induced Reactions*.
S.M. Mullins, J. Nyberg, A. Maj, M.S. Metcalfe, P.J. Nolan, **P.H. Regan**, R. Wadsworth and R.A. Wyss *Physics Letters* **B312** (1993) p272-276 [**13 citations**]
38. *Backbending in ^{180}W - a T-Band Crossing in*.
P.M. Walker, K.C. Yeung, G.D. Dracoulis, **P.H. Regan**, G.J. Lane, P.M. Davidson and A.E. Stutchberry, *Physics Letters* **B309** (1993) p17-22 [**36 citations**]
39. *Collective Oblate Dipole Rotational Bands in ^{198}Pb* .
R.M. Clark, R. Wadsworth, E.S. Paul, C.W. Beausang, I. Ali, A. Astier, D.M. Cullen, P.J. Dagnall, P. Fallon, M.J. Joyce, N. Redon, **P.H. Regan**, W. Nazarewicz and R. Wyss, *Nuclear Physics* **A562** (1993) p121-156 [**54 citations**]
40. *Octupole Collectivity in the Ground Band of ^{148}Nd* .
R. Ibbotson, C.A. White, T. Czosnyka, P.A. Butler, N. Clarkson, D. Cline, R.A. Cunningham, M. Devlin, K.G. Helmer, T.H. Hoare, J.R. Hughes, G.D. Jones, A.E. Kavka, B. Kotlinski, R.J. Poynter, **P.H. Regan**, E.G. Vogt, R. Wadsworth, D.L. Watson and C.Y. Wu, *Physical Review Letters* **71** (1993) p1990-1993 [**20 citations**]
41. **Anomalous Band Crossings in the $N=57$ Isotones, ^{103}Pd and ^{105}Cd* .
P.H. Regan, G.D. Dracoulis, G.J. Lane, P.M. Walker, S.S. Anderssen, A.P. Byrne, P.M. Davidson, T. Kibédi, A.E. Stuchbery and K.C. Yeung, *Journal of Physics* **G19** (1993) L157-L162 [**14 citations**]
42. **Origin of Correlations Between Evaporation Protons and Discrete Gamma-Rays in Heavy-Ion Fusion Evaporation Reactions*.
K.R. Pohl, **P.H. Regan**, J.W. Arrison and D.P. Balamuth, *Physical Review* **C49** (1994) p1372-1378 [**1 citation**]

43. *Yrast Isomers, Multiquasi-particle States and Backbending in ^{176}Ta and ^{177}Ta .*
M. Dasgupta, P.M. Walker, G.D. Dracoulis, A.P. Byrne, **P.H. Regan**, T. Kibédi, G.J. Lane and K.C. Yeung, *Physics Letters* **B328** (1994) p16-21 [**22 citations**]
44. **A $K^\pi=8^-$ Isomer in ^{136}Sm .*
A.M. Bruce, P.M. Walker, **P.H. Regan**, G.D. Dracoulis, A.P. Byrne, T. Kibédi, G.J. Lane and K.C. Yeung, *Physical Review* **C50** (1994) p480-482 [**9 citations**]
45. **Yrast Four-Quasi-Particle States in ^{182}W .*
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 S. Myaslski, M. Kmiecik, A. Maj, **P.H. Regan**, A.B. Garnsworthy, S. Pietri, D. Rudolph, Zs. Podolyák, S. Steer, F. Becker, P. Bednarczyk, J. Gerl, M.Górkša, H. Grawe, I. Kojouharov, H. Schaffner, H.J. Wollersheim, W. Prokopowicz, J. Grebosz, G. Benzoni, B. Blank, C. Brandau, A.M. Bruce, L. Cáceres, F. Camera, W.N. Catford, I.J. Cullen, Zs. Dombradi, P. Doornenbal, E. Estevez, H. Geissel, W. Gelletly, A. Heinz, R. Hoischen, G. Ilie, G.A. Jones, A. Jungclaus, A. Kelic, F.G. Kondev, T. Kurtukian-Nieto, N. Kurz, S. Lalkowski, Z. Liu, F. Montes, M. Pfützner, T. Saito, T. Shizuma, A.J. Simons, S. Schwertel, S. Tashenov, P.M. Walker, E. Werner-Malento, O. Wieland *Acta Physica Polonica* **B38** (2007) p1277-1282.
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181. * *β -Delayed γ -Ray Spectroscopy of Heavy Neutron-Rich Nuclei 'South' of Lead*.
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186. *Angular Momentum Population in Fragmentation Reactions.*
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M. Górska, A. Algora, N. Alkhomashi, J. Benlliure, P. Boutachkov, A. Bracco, E. Calore, E. Casarejos, I.J. Cullen, A.Y. Deo, P. Detistov, Zs. Dombradi, C. Domingo-Pardo, M. Doncel, F. Farinon, G.F. Farrelly, H. Geissel, W. Gelletly, J. Gerl, N. Goel, J. Grebosz, R. Hoischen, I. Kojouharov, N. Kurz, S. Leoni, F. Molina, A.I. Morales, D. Montanari, A. Musumarra, R. Nicolini, D.R. Napoli, C. Nociforo, A. Prochazka, W. Prokopowicz, **P.H. Regan**, B. Rubio, D. Rudolph, S. Verma, S.J. Steer, P. Strmen, T.P.D. Swan, I. Szarka, J.J. Valiente-Dobón, P.M. Walker, H. Weick and H.J. Wollersheim, *Acta Physica Polonica* **B40** (2009) p889-892.

187. *Nuclear Structure Addressed at GSI RISING.*

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188. **Isomer Decays Studies in Neutron-Rich $N \approx 126$ Nuclei.*

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189. **Structure of Neutron-rich Nuclei around the $N=126$ Closed Shell: the Yrast Structure of $^{205}\text{Au}_{126}$ up to spin-parity $I^\pi = (\frac{19}{2}^+)$.*

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190. **A Preliminary Report on the Determination of Natural Radioactivity Levels in the state of Qatar using High-Resolution Gamma-ray Spectrometry.*

H. Al-Sulaiti, **P.H. Regan**, D.A. Bradley, D. Malain, T. Santawamaitre, A. Habib, M. Matthews, S. Bukhari and M. Al-Dosari, *to be published in the Proceedings of the 11th International Symposium on Radiation Physics, University of Melbourne, Australia, 20-25 September 2009, to be published in Nuclear Instruments and Methods A*

191. * *Measurement of NORM in Beach Samples Along the Andaman Coast of Thailand after the 2004 Tsunami.*

D. Malain, **P.H. Regan**, D.A. Bradley, M. Matthews, T. Santawamaitre and H. Al-Sulaiti, *to be published in the Proceedings of the 11th International Symposium on Radiation Physics, University of Melbourne, Australia, 20-25 September 2009, to be published in Nuclear Instruments and Methods A*

192. * *An Evaluation of the Level of Naturally Occuring Radioactive Materials in Soil Samples Along the Chao Phraya River Basin.*

T. Santawamaitre, **P.H. Regan**, D.A. Bradley, M. Matthews, D. Malain and H. Al-Sulaiti, *to be published in the Proceedings of the 11th International Symposium on Radiation Physics, University of Melbourne, Australia, 20-25 September 2009, to be published in Nuclear Instruments and Methods A*

193. *Water equivalence of various materials for clinical proton dosimetry by experiment and Monte Carlo simulation.*

Leena Al-Sualiti, David Shipley, Russell Thomas, Andrzej Kacperek, **Patrick H. Regan**, Hugo Palmans, *to be published in the Proceedings of the 11th International Symposium on Radiation Physics, University of Melbourne, Australia, 20-25 September 2009, to be published in Nuclear Instruments and Methods A*

Selected, Non-Refereed Published Conference Proceedings

1. **Highly-Deformed Bands in Sm and Gd Nuclei.*
R. Wadsworth, **P.H. Regan**, J.R. Hughes, S.M. Mullins, I. Jenkins, M. Metcalf, Y-J, He, P.J. Nolan, D.B. Fossan, E.S. Paul, R. Ma and X. Xu, *Proceedings of the International Conference on Nuclear Structure in the Nineties, Oak Ridge, Tennessee, USA, (1990)* vol. 1 p38
2. **High-Spin Study and Lifetime Measurements of Neutron-Rich Co Isotopes.*
P.H. Regan, J.W. Arrison, U.J. Hüttmeier and D.P. Balamuth, *Proceedings of the International Conference on Nuclear Structure at High Angular Momentum, Ottawa, Canada (1992)* AECL/10613 p444-448
3. **Probing the Structure of the $N=Z=31$ Nucleus ${}^{62}_{31}\text{Ga}$.*
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Invited Nuclear Physics Forum Lecture, Lawrence Berkeley National Laboratory, California, USA, 11 June 1998
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Four lecture course at the EPSRC Postgraduate Summer School on Nuclear Physics, Van Mildert College, University of Durham, UK, 29 August-12 September 1999.
5. *Exploring the Nuclear Frontiers.*
Invited lecture, Institute of Physics, South Central Branch Meeting, 24th February 1999, University of Surrey.
6. *Spectroscopy of Proton Rich Nuclei.*
Five lecture course at the School on Selected Topics in Nuclear and Atomic Physics, Fiera di Primiero, Italy, 1-5 October 1999.
7. *Exotic Nuclei and Super Heavy Elements.*
Invited lecture, Institute of Physics, London and South Eastern District, University of Hertfordshire, UK, 19th October 2000.
8. *Isomer Studies as Probes of Nuclear Structure in Heavy, Neutron-Rich Nuclei.*
Invited lecture, XIV International School on Nuclear Physics, Neutron Physics and Nuclear Energy, Varna, Bulgaria, 25-30 September 2001.
9. *Nuclei at the Extremes.*
Invited colloquium, UK Atomic Energy Authority, Didcot, England 28 November 2001.
10. *High-Spin Nuclei.*
Six hours lecture course at the XI Jorge André Swieca Summer School on Nuclear Physics, Instituto de Física, University of Sao Paulo, Brazil. 10-21 February 2003.
11. *Making Gold: Nuclear Alchemy.*
Invited lecture, Guildford Institute, Surrey, 30 September 2004.
12. *The University of Surrey MSc in Radiation and Environmental Protection.*
Invited Colloquium, International Atomic Energy Agency, Vienna, 4th February 2005.

13. *Masters Level Course in Physics at the University of Surrey.*
Invited presentation to the Nuclear Physics Board of the European Physical Society, University of Surrey, Guildford 9th April 2005.
14. *Postgraduate Radiation Protection Training and Needs: The University of Surrey Model.*
Invited talk, 3rd International Conference on Education and Training in Radiological Protection, Brussels, Belgium, 23-25 November, 2005.
15. *Surrey Physics Teaching: A Unique Experience.*
Invited lecture, *Surrey Physics 100: A Celebration of 100 Years of Physics at the University of Surrey and Battersea Polytechnic* University of Surrey, Guildford, UK 22-23 June 2006
16. *Poisonous Polonium-210.*
Invited talk and debate panelist (1 of 4), Dana Centre, The Science Museum, London, 1st February 2007.
17. ²¹⁰Po: *An Interesting Nucleus.*
The Feynman Lecture, Charterhouse School, Godalming, Surrey, 3rd May 2007.
18. *'Ask the Scientists'*
Panel member (one of four) in open session on 'Introduction to the News Media Day' training programme, organised by the Science Media Centre, 8th May 2007.
19. *Poisons and Terminating the Periodic Table: The Story of Polonium-210.*
Invited talk at 1 week Institute of Physics Training Course for Secondary School Teachers taking physics as a 2nd subject, Charterhouse School, Godalming, Surrey, 12th July 2007.
20. *Germanium-Based Gamma-ray Spectroscopy for Imaging (the Atomic Nucleus).*
Invited Seminar, Medical Physics Department, Royal Surrey County Hospital, Guildford, Surrey, 19th September 2007.
21. *Making Gold: Nuclear Alchemy.*
Invited seminar, Farnham Geological Society, Farnham, Surrey, 14th December 2007.
22. *British Council Sponsored Debate on Nuclear Power.*
Panel Chair Member (of 5 person panel), in public debate on nuclear power, sponsored by the British Council, Baku, Azerbaijan, 23rd January 2008.
23. *The Science Behind Poisonous Polonium.*
Invited speaker, Café Scientifique Public Lecture, Le Café Parisien, Portsmouth, 4th March 2008.
24. *Polonium-210 and its Relevance to Physics.*
Guest Speaker, Institute of Physics Open Evening, Institute of Physics, 76 Portland Place, London, 10th June 2008.
25. *Polonium-210: An Interesting Nucleus.*
Invited talk at 1 week Institute of Physics Training Course for Secondary School Teachers taking physics as a 2nd subject, Charterhouse School, Godalming, Surrey, 9th July 2008.

26. *The Physics of Polonium-210.*
Invited public lecture, British Association Festival of Science, 'Fixing People with Physics', University of Liverpool, UK 7th September 2008.
27. *The Physics of Polonium-210.*
Invited public lecture, Launch of the Surrey Graduate School, University of Surrey, Weds. 7th October 2008.
28. *The Physics of Polonium-210..*
Invited public lecture, London and South East Branch of the Institute of Physics, Institute of Physics, 76 Portland Place, London, 15th October 2008.
29. *Polonium-210 and its Relevance to Physics.*
Invited public lecture, Institute of Physics, University of Surrey, Guildford, 21st January 2009.
30. *Polonium-210: An Interesting Nucleus.*
Invited public lecture, Institute of Physics, University of Kent, Canterbury, 27th January 2009.
31. *The Science of Poisoness Polonium-210.*
Invited Seminar, Joint Institute for Nuclear Astrophysics, University of Notre Dame, South Bend, Indiana, USA, 11 February 2009.
32. *The Spectroscopy of the Most Exotic Nuclei: Where Nuclear Structure and Astrophysics Meet.*
Invited Department Colloquium, Department of Physics, University of Notre Dame, South Bend, Indiana, USA, 11 February 2009.
33. *Polonium-210: An Interesting Nucleus.*
Invited lecture, Radley School Science Club, Radley School, Oxfordshire, 9 March 2009.
34. *What Does Academia Want from the Nuclear Industry.*
Invited panel member, Nuclear World Class Skills Conference, Manchester Centre, Manchester 12 March 2009.
35. *Top Tips for Working with the Media.*
Invited talk, Science Media Centre Introduction to the News Media event, Cardiff University, Cardiff, 31 March 2009.
36. *The Physics of Polonium-210.*
Invited Departmental Colloquium, Florida State University, Tallahassee, Florida, USA, 10th April 2009.
37. *Nuclear Physics and Society, a Four Day Short Course on Nuclear Physics and Public Policy.*
Invited Speaker, 5 one hour lectures during Course, held at the Gottwald Science Center, University of Richmond, Virginia, USA, 13-16 April 2009.

38. *Poisoness Polonium-210.*
Invited Speaker, 3C Womens Institute Scientific Society, Shalford New Village Hall, Shalford, Surrey, 27 April 2009.
39. *Polonium-210: An Interesting Nucleus.*
Invited speaker, Science Club Lecture, Uppingham School, Uppingham, Rutland, 29 April 2009.
40. *Science in the Media.*
Invited panel member (one of three), Standing Up For Science Media Workshop, organised by Sense About Science, Institute of Physics, London, 8 May 2009
41. *Polonium-210: An Interesting Nucleus.*
Invited speaker, Farnham Geological Society, Farnham, Surrey, 8 May 2009.
42. *(Some) Current Frontiers in Nuclear Physics Research: Rutherford Celebration.*
Invited speaker and Panel Member (one of three) The Times Cheltenham Science Festival, 3-7 June 2009.
43. *Cosmic Alchemy: How to Make Gold.*
Invited talk at 1 week Institute of Physics Training Course for Secondary School Teachers Taking Physics as a 2nd subject, Charterhouse School, Godalming, Surrey, 9th July 2009.
44. *Frontiers of Nuclear Physics Research.*
Invited talk (one of four) at 100 Years of Nuclear Physics Event, The British Science Festival, University of Surrey, Guildford, UK September 7th September 2009.
45. *(Some) Current Frontiers of Nuclear Physics Research.*
The Feynman Lecture, Charterhouse School, Godalming, Surrey, 8th October 2009.

Selected Conference and Workshop Oral Presentations.

1. *Spectroscopy of $^{132,133}\text{Sm}$.*
Selected talk, Institute of Physics Conference on Nuclear and Particle Physics, Harwell Laboratory, UK, 5-7 April 1989.
2. *High Spin Spectroscopy of the Highly Neutron Deficient Nucleus, ^{133}Pm .*
Selected talk, Spring Meeting of the Nuclear Physics Sections, Strasbourg, France, 26-30 March 1990.
3. *Lifetime Measurements of the $\nu_{13/2}$ Intruder Bands in $^{135,7}\text{Sm}$.*
Selected talk, Institute of Physics Conference on Nuclear and Particle Physics, University of Liverpool, UK, 9-11 April 1991.
4. *In-beam γ -ray Spectroscopy of $^{61,63}\text{Co}$.*
Selected talk, Spring Meeting of the American Physical Society, Washington DC, USA, 20-24 April 1992.

5. *First Observation of a $K^\pi = 8^-$ Band for $N=74$.*
Selected talk, 15th AINSE Nuclear and Particle Physics Conference Brisbane, Australia, July 4-8 1994.
6. *High Spin Studies around ^{110}Pd : Something for Everyone?*
Selected talk, Research Opportunities with Secondary Beams at ATLAS, Argonne National Laboratory, USA, 13-14 January 1995.
7. *Deformation Below the $Z=50$ Closed Shell: g -Factor Measurement of the Yrast 10^+ State in ^{110}Cd .*
Selected talk, Institute of Physics Conference on Nuclear and Particle Physics, Telford, UK, 27-29 March 1995.
8. *Investigation of Nuclear Shapes for Neutron Rich Nuclei with $A\sim 110$ Using Deep Inelastic Reactions.*
Selected talk, Midsummer Workshop on Nuclear Physics, Jyväskylä, Finland 26-29 June 1996.
9. *Experiments in $N=Z$ Nuclei.*
Invited talk, Trends in Nuclear Physics, XXXI Zakopane School of Physics, Zakopane, Poland, 3-11 September 1996.
10. *Isomeric Studies at GANIL.*
Invited talk, EPSRC Nuclear Physics Study Weekend, Birmingham, England, 26-27 October 1996.
11. *Experiments Using Conversion Electrons from Isomeric States.*
Invited talk, Workshop on Spectroscopy of Conversion Electrons after Nuclear Reactions Induced by Stable and Radioactive Beams, Saclay Paris, France, 24-25 March 1997.
12. *Isomers from Fragmentation.*
Invited talk, Institute of Physics Meeting on 'Nuclear Isomers at the Limits' University of Surrey, 11 February 1998.
13. *Experimental Investigation of Isospin Symmetry at the $N=Z$ Line.*
Invited talk, International Conference on Nuclear Structure at the Extremes, Lewes, England, 17-19 June 1998.
14. *K -Isomers Across the Nuclear Chart using GREAT.*
Invited talk, International Workshop on The Study of Nuclei Far From Stability Using Tagging Techniques. Liverpool, 21-22 February 1999.
15. *Large Deformation, Shape Coexistence and Isospin Symmetry Around the $A=80$ $N=Z$ Line.*
Invited talk, XII Colloque GANIL, Seignosse, France, 17-21 May 1999.
16. *Applications of CdZnTe Detectors for Nuclear Spectroscopy and Fusion Channel Selection.*
Invited talk, International Workshop on "Nuclear Structure Physics Near the Coulomb Barrier: Into the 21st Century", Yale University, USA, 10-12 June 1999.

17. *Deep Inelastic Versus Projectile Fragmentation: The New Spectroscopy of Heavy Neutron Rich Systems.*
Invited talk, Gordon Research Conference on Nuclear Chemistry, Colby-Sawyer College, New Hampshire, USA, 13-18 June 1999.
18. *New Tools for Exotic Discrete Line Gamma-ray Spectroscopy.*
Invited talk, Symposium on New Nuclear Science with New Tools for The Next Millenium, American Chemical Society Meeting, San Francisco, USA, 26-30 March 2000.
19. *Nuclear Structure of Heavy Neutron Rich Systems: Fragmentation Spectroscopy of a 1 GeV ^{208}Pb Beam.*
Selected talk, Nuclear Structure 2000 Conference, Michigan State University, USA, 14-19 August 2000.
20. *The GSI Fragmentation Gamma-ray Spectroscopy Campaign.*
Invited talk, GRETA Workshop, Michigan State University, USA, 16 August 2000.
21. *Tagging Results and Prospects with Relativistic Projectile Fragmentation.*
Invited talk, EXOTAG Working group meeting on New Developments in Particle Identification Techniques, CERN, Geneva, Switzerland, 28-30 September 2000.
22. *New Physics Possibilities in Neutron-Rich Transitional and Rare-Earth Nuclei Using Binary Collisions.*
Invited talk, Workshop on Physics with Euroball Detectors at GSI, GSI, Darmstadt, Germany, 23-24 Nov. 2000.
23. *Experimental Challenges for Isomer Studies with EURISOL.*
Invited talk, EURISOL Ground State Properties and Fundamental Interactions Subgroup Workshop, Leuven, Belgium, 26 Jan 2001
24. *Blinding Flashes! Digital Spectroscopy Needs in Intermediate and Relativistic Energy Isomer Spectroscopy.*
Invited talk, Institute of Physics Meeting on 'Nuclear Spectroscopy in the Digital Age', University of Liverpool, 31 January 2001.
25. *Summary of Possible Stopped Beam Physics with RISING.*
Invited talk, Workshop on Physics with RISING at GSI using Slow Beams, INFN Legnaro, Italy, 2-3 April 2001
26. *Exotic Isomer Spectroscopy.*
Invited talk, North West Europe Nuclear Physics Conference, Bergen, Norway, 17-20 April 2001.
27. *New High Spin Physics Opportunities in Stable and Neutron-Rich Nuclei Using Binary Collisions.*
Invited talk, International Workshop on Nuclear Structure Physics Near the Coulomb Barrier: Into the 21st Century, Yale University, USA, 14-16 June 2001.

28. *New Isomers from Fast Fragmentation Reactions.*
Invited talk, Gordon Conference on Nuclear Chemistry, Colby-Sawyer College, New Hampshire, USA, 17-22 June 2001.
29. *Digital Gamma-Ray Spectroscopy in Fragmentation Reactions.*
Invited talk, TMR User Meeting on Gamma-ray Tracking Detectors, University of Liverpool, 12-14 September 2001.
30. *Isomers Beyond $Z=82$ and $N=126$.*
Invited talk, Workshop on Shape Mixing and Modifications in the Nuclear Mean Field with Applications to the Pb Region, University of Gent, Belgium, 10-11 December 2001
31. *From ^{208}Pb to the ^{170}Dy Double-Mid Shell.*
Selected talk, International Conference on Nuclear Structure, Jackson Lake Lodge, Grand Teton National Park, Wyoming, USA, 22-25 May 2002.
32. *The Highs and Lows of the $A\sim 100$ Region.*
Selected talk at, The International Conference on the Frontiers of Nuclear Structure, Berkeley, California, 29 July-2 August 2002.
33. *From Vibrations to Rotations as a Function of Spin.*
Invited talk, Nuclear Structure at the Limits of Stability Workshop on Nuclear Structure Theory, University of Surrey, UK, 9-11 January 2003.
34. *Vibrational-Rotational Evolution Along the Yrast Line.*
Invited talk, Minisymposium on Emergent Phenomena in Nuclei, American Physical Society Meeting, Philadelphia, USA, 5-9 April 2003
35. *E-GOS Plots: A Simple Signature of Yrast Collective Nuclear Structure.*
Invited talk, Workshop on Nuclear Structure Physics Near the Coulomb Barrier: Into the 21st Century. Yale University, New Haven, Connecticut, USA, 12-14 June 2003
36. *Undergraduate Courses with Integral Research Year.*
Selected talk, Conference on Sharing Excellence, Improving Student Learning, University of Surrey, 10 June 2003.
37. *New Physics Questions in Heavy, Neutron-Rich Nuclei.*
Contributed talk, meeting on the Future of UK Nuclear Physics, Daresbury Laboratory, UK, 23-24 June 2003.
38. *In-Beam and Isomer-Gated Spectroscopy of Neutron-Rich Nuclei from $A=100$ to 200 Using Deep-Inelastic Reactions.*
Selected talk, International Conference on the Labyrinth in Nuclear Structure, Crete, Greece, 13-19 July 2003.
39. *'The Long and the Short of It': Some Fundamentals about Nuclear Isomers.*
Invited talk, Energy Storage and Other Opportunities with Nuclear Isomers, Idaho State University, Pocatello Idaho, USA, 14-15 August 2003

40. *The Potential for Deep-Inelastic Spectroscopy with RIBS.*
Invited talk, HRIBF Decay Spectroscopy Workshop, Oak Ridge National Laboratory, Tennessee, USA, 18-19 August 2003
41. *Production of Exotic Nuclear Isomers in Nuclear Fragmentation and Deep-Inelastic Collisions.*
Invited talk, 12th International Laser Physics Workshop, Hamburg, Germany, 25-29 August 2003
42. *Collective and Symmetry Studies around ^{170}Dy using CLARA+PRISMA.*
Contributed talk on the Workshop on the Future of Gamma Spectroscopy at LNL:GaSp and CLARA Arrays, Legnaro, Italy, 3-5th March 2004.
43. *Structural Evolution of Neutron-Rich Nuclei Using Thin-Target Deep-Inelastic Reactions.*
Contributed talk, AGATA Workshop, Orsay, Paris, France, 22-24th March 2004.
44. *The Surrey Experimental Nuclear Physics Programme.*
Invited talk, Research Symposium between University of Surrey and HMS Sultan, HMS Sultan, Gosport, 31 March 2004
45. *Summary of the Stopped Beam Campaign Workshop.*
Invited talk, Workshop for the Stopped RISING Detector, GSI Darmstadt, Germany, 16 April 2004.
46. *Evolution of Nuclear Structure in the (N,Z,I) Co-ordinate Frame around $A\sim 100$.*
Invited talk, International Conference on Nuclear Physics, Large and Small, Hacienda Cocoyoc, Morelos, Mexico, 19-22 April 2004.
47. *Planned RISING Experiments with Stopped Beams.*
Invited talk, International Symposium on Atomic Nuclei at Extreme Values of Temperature, Spin and Isospin", Zakopane, Poland, 31 August - 5 September 2004.
48. *Recent Nuclear Structure and Reaction Dynamics Studies Using Multinucleon Transfer Reactions.*
Invited talk, Institute of Physics Half-Day Meeting on 'Neutron-Rich Nuclei', University of Paisley, Scotland, 6 October 2004.
49. *The RISING Stopped Beam Campaign.*
Invited talk, GSI-NUSTAR Meeting, GSI Darmstadt, Germany 9 February 2005.
50. *$A\sim 100$ $h_{\frac{11}{2}}$ Bands, Isomers and g -Factors.*
Invited talk, Surrey University Isomer workshop 23-24 May 2005.
51. *In-Beam Radioactive Beam Studies*
Invited talk, Nuclear Physics Community Meeting: Physics Directions and Strategic Planning, Coseners House, Abingdon, UK 25-26 May 2005.

52. *Picosecond Lifetime Measurements in 'Vibrational' Cd and Pd Nuclei.*
Invited talk, Yale Workshop on Nuclear Structure Physics Near the Coulomb Barrier: Into the 21st Century, Yale University, New Haven, USA, 22-25 June 2005.
53. *Nuclear Structure from Long-Lived Isomers and Beta-Decays of Heavy, Neutron-Rich Nuclei.*
Invited talk, International Workshop on Physics with Low-Energy Beams at SPIRAL2, GANIL, Caen, France, 3-5 July 2005.
54. *New Physics Opportunities with the Stopped Beam RISING Project.*
Invited talk, International Workshop on Isomers, University of Notre Dame. South Bend Indiana, USA, 4 September 2005.
55. *Multinucleon Transfer Reactions to Study Nuclear Structural Evolution.*
Invited talk, 12th International Conference on Capture-Gamma Spectroscopy and Related Topics, CGS-12, University of Notre Dame, South Bend, Indiana, USA, 5-9 September 2005.
56. *The Use of Deep-Inelastic and Multinucleon Transfer Reactions for Gamma-ray Spectroscopy: A Brief Review.*
Invited talk, SPIRAL2 workshop on High Resolution Gamma-ray Spectroscopy, GANIL, France 4-6 October 2005.
57. *Nuclear Structure and Reaction Mechanism Studies with Multinucleon Transfer Reactions.*
Invited talk, FUSION06, International Conference on Reaction Mechanisms and Nuclear Structure at the Coulomb Barrier, San Servolo, Venezia Italy, 19-23 March 2006.
58. *Isomers and Structural Evolution Using the RISING Array.*
Invited talk, Contemporary Frontiers in Nuclear Structure, 231st American Chemical Society National Meeting, Atlanta, Georgia, USA, 26-30 March 2006.
59. *Report on RISING and Other UK Involvement at GSI.*
Invited talk, Nuclear Physics UK Community Meeting, Cosener's House, Abingdon, UK, 16-17 May 2006.
60. *First Results from the Stopped Beam RISING Campaign at GSI: The Mapping of Isomeric Decays in Highly Exotic Nuclei.*
Plenary Invited talk, 6th International Conference of the Balkan Physical Union, Istanbul, Turkey, 22-26 August 2006.
61. *First Results from the Stopped Beam RISING Campaign at GSI.*
Invited talk, IX International Conference on Nucleus-Nucleus Collisions, Rio de Janeiro, Brazil, 28 August - 1 September 2006
62. *The Stopped RISING Experimental Campaign at GSI.*
Invited talk, Institute of Physics Nuclear and Particle Physics Divisional Conference, University of Surrey, Guildford, UK, 3-5 April 2007.

63. *RISING at GSI.*
Invited talk, UK Nuclear Physics Community Annual Meeting, Coseners House, Abingdon, UK 22-23 May 2007.
64. *New Insights into Nuclear Structure at Extremes of Isospin Using the Stopped RISING Array at GSI.*
Invited talk, Gordon Research Conference on Nuclear Chemistry, Colby Sawyer College, New Hampshire, USA, 3-8 June 2007.
65. *Pushing the limits of Gamma-ray Spectroscopy: The Stopped RISING Campaigns.*
Invited talk, Institute of Physics Nuclear Physics Conference, Liverpool University, UK 1-3 April 2008
66. *Recent Physics Highlights from the Stopped RISING Campaigns.*
Invited talk, International Workshop on Nuclear Structure Physics, Shanghai, China, 1-7 June 2008.
67. *New Insights into the Structure of Heavy Neutron-Rich Nuclei using the RISING Active Stopper.*
Invited talk, 13th International Symposium on Capture Gamma-ray Spectroscopy and Related Topics, Koeln, Germany, 25-29 August 2008.
68. *Knowledge Exchange in (Academic) Nuclear Physics.*
Invited talk, Nuclear Physics Community Meeting, Cosener's House, Abingdon, UK 10-11 September 2008.
69. *Microscopic Investigations of the Proton Subshell Closure at $Z=74$ and Tri-axial 'Magic Number' at $N=116$ Using Deep-Inelastic Collisions with AGATA at PRISMA.*
Contributed talk, Agata Demonstrator Physics Workshop, INFN-Legnaro Laboratory, Italy, 18-20 May 2009.
70. *Funding of UK Nuclear MSc Courses.*
Invited talk, Nuclear Physics UK Community Meeting, 11-12 June, Cosener's House, Abingdon, UK
71. *Transitions in Nuclear Structure of Heavy, Neutron-Rich Nuclei.*
Invited talk, The 7th Biennial Workshop on Nuclear Structure Physics Near the Coulomb Barrier, Into the 21st Century, Yale University, New Haven, USA 18-20 June 2009.
72. *The Stopped RISING Years: 2001-2009*
Invited Talk, RISING Celebration Symposium 5th October 2009, TU Darmstadt, Germany

I have given invited Research Colloquia at the following institutions:

(1) University of Manchester (2000); (2) University of Liverpool (1999); (3) University of Birmingham (1993); (4) University of York (2002,2007); (5) The Lawrence Berkeley National Laboratory, California, USA (1993,1999); (6) University of Notre Dame, South Bend Indiana, USA (1999,2000,2002,2007,2009); (7) The State University of New York at Stony Brook, USA

(1992); (8) The University of Kentucky at Lexington, USA (2000); (9) Yale University, New Haven, Connecticut, USA (2000,2004,2005); (10) The Triangle Universities Nuclear Laboratory, Raleigh, North Carolina, USA (2002); (11) Rutgers University, Piscataway, New Jersey, USA (2002); (12) NSCL, Michigan State University, East Lansing, USA (1996,2008); (13) Florida State University, Tallahassee, USA (2002,2009); (14) The Institute of Nuclear Physics, Orsay, Université de Paris (2000); (15) The National Accelerator Centre, Cape Town, South Africa (2001); (16) University of Camerino, Italy (2005); (17) ILL-Grenoble, France (2007).

Mainstream Media (TV/Radio) Appearances on Radiation Science Issues.

1. 24 Nov. 2006, live interview, BBC World Service Radio 'Newshour' (^{210}Po).
2. 24 Nov. 2006, live interview, BBC News 24 (^{210}Po).
3. 24 Nov. 2006, live interview, BBC Radio 4 'The World Tonight' (^{210}Po).
4. 25 Nov. 2006, live interview, BBC Radio 5 Live 'Morning Show' (^{210}Po).
5. 25 Nov. 2006, live interview, BBC1 Breakfast Show (^{210}Po).
6. 25 Nov. 2006, recorded interview, BBC World, News (^{210}Po).
7. 25 Nov. 2006, recorded interview, BBC1 News (^{210}Po).
8. 25 Nov. 2006, live Sky TV News Panel Member (three appearances) (^{210}Po).
9. 27 Nov. 2006, live interview, Sky Evening News (^{210}Po).
10. 29 Nov. 2006, recorded interview, BBC2, shown on 'Newsnight' (^{210}Po).
11. 29 Nov. 2006, live interview, BBC News 24 (^{210}Po).
12. 29 Nov. 2006, recorded interview, BBC World Service Radio (^{210}Po).
13. 29 Nov. 2006 recorded Sky News Interview, shown on Sky News report (^{210}Po).
14. 30 Nov. 2006, live interview, Sky 'Sunrise with Eamon Holmes' (^{210}Po).
15. 30 Nov. 2006, recorded interview, Channel 5 News, shown that evening (^{210}Po).
16. 30 Nov. 2006, recorded interview, CBS Evening News (USA) (^{210}Po).
17. 30 Nov. 2006, recorded interview, BBC1 TV Evening News (^{210}Po).
18. 30 Nov. 2006, live interview, guest on BBC Radio 2 'The Jeremy Vine Show' (^{210}Po).
19. 30 Nov. 2006, live interview, BBC World Service Radio for 'Newshour' (^{210}Po).
20. 30 Nov. 2006, live interview, Highland Radio (Eire) 'The Shaun Doherty Show' (^{210}Po).
21. 30 Nov. 2006, recorded interview, BBC Southern Counties Radio (Guildford) (^{210}Po).
22. 30 Nov. 2006, recorded interview, Russia Today (TV) (^{210}Po).

23. 30 Nov. 2006, recorded interview, BBC World Service 'The World Today', (^{210}Po) .
24. 1 Dec. 2006, live interview, Sky News (^{210}Po).
25. 1 Dec. 2006 live interview, BBC News 24(^{210}Po).
26. 1 Dec. 2006, recorded interview, CNN (USA) (^{210}Po).
27. 1 Dec. 2006, live interview, BBC Radio Scotland (^{210}Po).
28. 2 Dec. 2006, live interview, BBC Radio 4 'Today Program with John Humphrys' (^{210}Po).
29. 2 Dec. 2006, live interview, Sky 'Sunrise' program (^{210}Po).
30. 2 Dec. 2006, live interviews as Sky News panel member (^{210}Po).
31. 2 Dec. 2006, recorded interview, Sky TV main news (^{210}Po).
32. 2 Dec. 2006, live interview, BBC News 24 (^{210}Po).
33. 2 Dec. 2006, guest panel member on BBC Radio 5 Live, 'The Steven Nolan Show' (^{210}Po).
34. 5 Dec. 2006, live interview, 'Gordon Astley Show' BBC Southern Counties Radio (^{210}Po).
35. 3 Feb. 2007, live interview, Channel 4's 'The Richard and Judy Show' (Electrosensitivity).
36. 21 May 2007, 11 separate local radio interviews for BBC General News Service (WiFi Safety).
37. 17 July 2007, live interview, BBC World TV News (Japanese earthquake radiation leak).
38. 12 Sept. 2007, live interview, BBC1 Breakfast Show (EM Radiation Health Report).
39. 17 Sept. 2007, live interview, BBC Southern Counties Radio Breakfast Show (nuclear power).
40. 23 Nov. 2007, interview, shown on BBC1 Evening New (^{210}Po production).
41. 3 Jan. 2008, live interview, BBC Southern Counties Radio (Nano-technology).
42. 3 Jan. 2008, live interview, Phantom Radio (Eire), S. Maher Show (Sense About Science).
43. 10 Jan. 2008, interview, BBC Southern Counties Radio (Announcement on Nuclear Power).
44. 28 Mar. 2008, interview BBC Radio 4 'The Punt PI Show', first broadcast 4 May 2008, repeated 2 Oct. 2008 (effects of radiation).
45. 25 April 2008, live interview, BBC Radio 2 'Jeremey Vine Show' (Syrian nuclear reactor).
46. 10 Sept. 2008, live phone-in/talk show, BBC Radio Wales, (The Big Bang and LHC Machine).
47. 10 Sept. 2008, live interview, BBC Southern Counties Radio, (The Big Bang and the LHC.)
48. 6 Oct. 2008, live interview, Talksport Radio with Aidrian Durham (Effects of Radiation.)

49. 7 Oct. 2008, recorded interview, FM4 Radio for the ORF (Austria), (Effects of Radiation.)
50. 27 Nov. 2008, live interview, BBC Radio Wales, The Richard Evans Phone-in (EM Radiation.)
51. 9 April 2009, interview, BBC Radio Northern Ireland, The Steven Nolan Show (EM Radiation.)

Nuclear Physics Research Proposal Presented as Spokeperson (Selected).

I have led a number of international nuclear physics research collaborations which have won competitive beam time at leading international facilities. Listed below are selected experiments for which I have acted as the Spokesperson, with the overall responsibility for overseeing the project from writing the original experimental proposal(s), through to the design and completion of the experimental phase, culminating in the data analysis and publication of the experimental results.

1. *Spectroscopic Studies of Neutron Rich Nuclei Around $A \sim 100$.*
January 1996, granted 7 days beam time on the University of Jyväskylä, Finland, cyclotron accelerator (in collaboration with Liverpool University).
2. *Search for Micro-Second Isomeric States in Neutron Deficient Nuclei Around $A=80$.*
May 1996, granted 6 days beam time and the National Heavy-Ion Accelerator (GANIL), France (in collaboration with CEN Bordeaux, GANIL, Liverpool University, Warsaw University, CEN Strasbourg, Daresbury Laboratory and York University.)
3. *Investigation of the Deformed Oblate Minimum in ^{74}Kr .*
November 1996, granted 4 days beam time at the National Nuclear Laboratory, (LLN) Legnaro, Italy (in collaboration with INFN Legnaro, University of Padova, Daresbury Laboratory, Staffordshire University, Brighton University, Warsaw University, IFIC Valenica and IPN Bucharest).
4. *Shape Coexistence and the Spectroscopy of ^{187}Pb .*
December 1996, granted 6 days beam time on the University of Jyväskylä, Finland, cyclotron accelerator (in collaboration with the Canberra).
5. *Studies of Isomeric States and Limits of Particle Stability Around $N \sim Z \sim 40$ Using Fragmentation Reactions.*
February 1997, granted 7 days beam time and the National Heavy-Ion Accelerator (GANIL), France (in collaboration with CEN-Bordeaux, GANIL, Liverpool University, Warsaw University, CEN Strasbourg, Daresbury Laboratory and York University.)
6. *Search for Micro-second K-Isomers in Neutron Rich Rare Earth Nuclei Around $A=180$.*
October 1997, granted 14 days beam time at GSI, Darmstadt, Germany (in collaboration with GSI Darmstadt, Warsaw University, Oak Ridge National Lab., Liverpool University, Daresbury Laboratory, GANIL, LPC Caen, York University).

7. *Spectroscopy of Neutron-Rich Mo Isotopes around $A=100$.*
 March 1998, granted 4 days beam time at the Lawrence Berkeley National Laboratory, California, USA (in collaboration with Jyväskylä and Liverpool University).
8. *Investigation of Pairing Correlations and Collectivity in the $N=Z$ Nucleus, $^{80}_{40}\text{Zr}$.*
 July 1998, granted 5 days beam time at the National Nuclear Laboratory, Legnaro, Italy (in collaboration with York University, Berkeley Laboratory, Lund University, INFN Legnaro, and IFIC Valencia).
9. *Search for Long Isomeric Decays in Neutron-Rich Rare Earth Nuclei Around ^{178}Lu .*
 November 1998, granted 4 days beam time at GSI, Darmstadt, Germany (in collaboration with GSI Darmstadt, Liverpool University, Daresbury Laboratory, Canberra and York University).
10. *The GSI Fragmentation ISOMER Gamma-Ray Spectroscopy Campaign, New Vistas in Discrete Line Nuclear Structure Studies.*
 June 2000, granted 43 days of beam-time using the SIS synchrotron at GSI Darmstadt Germany (in collaboration with Lund University, Warsaw University, Liverpool, York, Brighton, Manchester, Daresbury, Uppsala, Leuven, Oak Ridge National Laboratory, University of Tennessee, University of Notre Dame, University of Jyväskylä, ANU Canberra, NBI Copenhagen, GANIL, IPN-Orsay, CEA-Saclay, Grenoble).
11. *Spectroscopy of the Doubly Mid-Shell $^{170}_{66}\text{Dy}_{104}$ Region.*
 Jan. 2001, granted 5 days beam time using the WNSL tandem accelerator, Yale University, USA, (in collaboration with INFN-Legnaro, University of Liverpool and Yale University).
12. *In-Beam Fragmentation Spectroscopy of Heavy Neutron-Rich Transitional Elements: Evidence for a New Shell Closure?*
 March 2001, granted 3 days of beam time at the National Accelerator Centre, Cape Town, South Africa (in collaboration with NAC-Cape Town, CLRC-Daresbury, Notre Dame, Sofia and Liverpool Universities).
13. *Identification of the Doubly Magic Superdeformed Minimum in ^{100}Mo .*
 June 2001, granted 5 days of beam time at the Lawrence Berkeley National Laboratory, USA, using GAMMASPHERE (in collaboration with Rochester, Liverpool and Manchester Universities.)
14. *Searches for Vibrational to Rotational Evolution in Ru Nuclei.*
 January 2002, 6 days beam time at WNSL-Yale University.
15. *Collective and Symmetry Studies around the ^{170}Dy Valence Maximum.*
 July 2004, granted 6 days of beam time at the INFN-Legnaro Accelerator, Italy (in collaboration with CLRC-Daresbury and Paisley, Yale and Manchester Universities).
16. *Picosecond Lifetime Measurements in Cd and Pd Nuclei.*
 August 2004, granted 12 days of beam time at WNSL-Yale laboratory, USA (in collaboration with Camerino, Sofia, Istanbul and Manchester Universities and CLRC Daresbury).

17. *The Stopped Beam RISING Campaign.*

March 2005 to present, Spokesperson and Co-ordinator for the Stopped Beam RISING collaboration. Collaboration granted more than 80 days of 14 separate beam-time for Stopped Beam RISING Campaign experiments (in collaboration with the Universities of Lund, Madrid, Warsaw, Santiago de Compostela, Liverpool, Brighton, York, INFN-Legnaro et al.,)

18. *In-beam Spectroscopy of the $N=51$ Nucleus, ^{91}Zr .*

Granted 10 days of beam time, WNSL-Yale University, USA July 2005 (in collaboration with the Universities of Manchester and Paisley.)

19. *Characterising the Microsecond Isomers in the $N=Z$ Nucleus ^{86}Tc .*

December 2006, granted 3 days of beam time at Argonne National Laboratory.

20. *Picosecond Lifetime Measurements of Excited States in ^{91}Zr .*

August 2007, 6 days of beam time at WNSL-Yale University (in collaboration with the University of Richmond).

21. *Picosecond Lifetime Measurements of Excited States in ^{100}Pd .*

August 2009, 14 days of beam time at WNSL-Yale University.