CH/Pubs/01

Publication List

Cumulative: All Categories

Author: N. Curtis and W.N. Catford

Date: 31st October 2001

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1 List of Doctoral Theses Produced

1. "Resonant particle spectroscopy",
S.C. Allcock, University of Oxford, 1986.

2. "Spin and structure of $^{12}C+^{12}C$ resonances",
P.R. Keeling, University of Oxford, 1987.

3. "Symmetric and near-symmetric breakup of *sd*-shell nuclei",
S.J. Bennett, University of Birmingham, 1989.

4. "Measurement of the spins of symmetrically fissioning states in ^{24}Mg",
M. Freer, University of Birmingham, 1991.

5. "Breakup studies with a ^{23}Na beam",
N.S. Jarvis, University of York, 1991.

6. "Symmetric fissioning states at high excitation in ^{24}Mg",
J.T. Murgatroyd, University of Birmingham, 1992.

7. "Symmetric breakup studies in ^{24}Mg",
C.D. Jones, University of York, 1993.

8. "High excitation breakup states in ^{24}Mg and related detector development",
M.J. Leddy, University of Birmingham, 1994.

9. "$^{16}O+^{8}Be$ breakup of ^{24}Mg",
J.S. Pople, University of Birmingham, 1994.

10. "A study of highly deformed α–cluster structures in light nuclei",
P.M. Simmons, University of Oxford, 1995.

11. "Study of super-deformed α–cluster states in light nuclei,"
J. Zhang, University of Oxford, 1995.

12. "The $^{12}C+^{12}C$ '6–α Chain State' Resonance,"
S.P.G. Chappell, University of York, 1995.

13. "^{12}C and ^{16}O Breakup of ^{24}Mg, ^{28}Si and ^{32}S,"
N. Curtis, University of Birmingham, 1995.

14. "A study of the $^{12}C(^{16}O,^{12}C(E_x=7.65\ \mathrm{MeV}))^{16}O$ reaction,"
S.P. Fox, University of York, 1995.

15. "A search for $^{16}O + ^{16}O + ^{16}O$ breakup of ^{48}Cr"
A.St.J. Murphy, University of Birmingham, 1996.

16. "Symmetric fission of ^{24}Mg and ^{56}Ni,"
S.M. Singer, University of Surrey, 1996.

17. "A search for shape isomers in ^{28}Si, ^{24}Mg and ^{20}Ne linked by successive alpha decay,"
G.R. Kelly, University of Birmingham, 1996.

18. "The ^{16}O + ^{8}Be exit channel in the vicinity of the ^{12}C* + ^{12}C* E_{cm}=32.5 MeV resonance,"
P. Lee, University of York, 1997.

19. "Investigation of the ^{12}C + ^{12}C E_{cm}=32.5 MeV resonance,"
R.A. Le Marechal, University of Birmingham, 1997.

20. "A Multi-Element Gas-Hybrid Array for charged particle spectroscopy,"
R.L. Cowin, University of York, 1997.

21. "Search for a shape eigenstate in ^{32}S,"
S.J. Hoad, University of Birmingham, 1998.

22. "Couple channels calculations for the scattering of deformed light nuclei,"
P.E. Fry, University of Oxford, 1998.

23. "Investigation of resonance phenomena in the ^{16}O + ^{16}O system,"
G.K. Dillon, University of York, 1999.

24. "Breakup reactions populating cluster states in ^{28}Si and ^{24}Mg,"
M. Shawcross, University of Surrey, 1999.

25. "An angular correlation technique for the investigation of nuclear reaction mechanisms with an application to the ^{12}C(^{24}Mg,^{12}C ^{12}C)^{12}C reaction,"
C.D. Freeman, University of Birmingham, 1999.

26. "Couple channels calculations for the scattering of deformed light heavy ions: A challenge to the standard approach,"
I. Boztosun, University of Oxford, 2000.

27. "Probing nuclear molecular analogue states in carbon, boron and beryllium isotopes,"
P.J. Leask, University of Birmingham, 2000.

28. "New high spin resonances in ^{12}C + ^{12}C scattering,"
C.A. Bremner, University of Oxford, 2000.

29. "The unbound nucleus ^{13}Be,"
K.L. Jones, University of Surrey, 2000.

30. "The effect of breakup in the ^{9}Be + ^{208}Pb system,"
R.J. Woolliscroft, University of Birmingham, 2001.

2 List of Publications in Refereed Journals

2.1 1984

1. "Reaction mechanism and spin information in the sequential breakup of ^{18}O at 82 MeV",
   W.D.M. Rae and R.K. Bhowmik,
   Nucl. Phys. **A420** (1984) 320–350

2. "Spin measurements and reaction mechanism in the inelastic scattering of ^{18}O on ^{12}C",
   R.K. Bhowmik, W.D.M. Rae and B.R. Fulton,
   Phys. Lett. **136B** (1984) 149–152

3. "Excitation of Anomalous α-^{14}C Resonances in the Inelastic Scattering of ^{18}O on a ^{12}C Target,"
   W.D.M. Rae and R.K. Bhowmik,
   Nucl. Phys. **A427** (1984) 142

2.2 1985

1. "Angular correlations in heavy ion reactions",
   S. Marsh and W.D.M. Rae,
   Phys. Lett. **153B** (1985) 21

2. "High spin α-cluster resonances in ^{16}O,"
   W.D.M. Rae, S.C. Allcock, S. Marsh and B.R. Fulton,
   Phys. Lett. **156B** (1985) 167–171

3. "A study of ^{19}F by inelastic scattering on a ^{12}C target at 82 MeV and 144 MeV using the techniques of resonant particle spectroscopy,"
   A.E. Smith, S.C. Allcock, W.D.M. Rae, B.R. Fulton and D.W. Banes,
   Nucl. Phys. **A441** (1985) 701

4. "High-spin α-cluster Resonances in ^{16}O,"
   W.D.M. Rae, S.C. Allcock, S. Marsh and B.R. Fulton,
   Phys. Lett. **156B** (1985) 167

5. "Stretching, Anti-stretching and Particle Alignment in Rapidly Rotating Cluster Nuclei and Nuclear Quasi-molecules,"
   W.D.M. Rae and S. Marsh,
   Phys. Lett. **161B** (1985) 251

6. "Search for heavy-ion resonances in the reactions ^{12}C(^{20}Ne,α) and ^{12}C(^{20}Ne, ^{8}Be),"
   N.R. Fletcher, W.D.M. Rae, A.E. Smith, S.C. Allcock and D.L. Gay,
   Phys. Rev. **C32** (1985) 1911

2.3 1986

1. "Symmetric Fission of ^{24}Mg following Inelastic Scattering,"
B.R. Fulton, S.J. Bennett, C.A. Ogilvie, J.S. Lilley, D.W. Banes, W.D.M. Rae, S.C. Allcock, R.R. Betts, A.E. Smith,
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2. "The structure of ^{24}Mg using the cranked cluster model",
S. Marsh and W.D.M. Rae,
Phys. Lett. **180B** (1986) 185

3. "Symmetric fission of ^{24}Mg following inelastic scattering,"
B.R. Fulton, S.J. Bennett, C.A. Ogilvie, J.S. Lilley, D.W. Banes, W.D.M. Rae, S.C. Allcock, R.R. Betts and A.E. Smith,
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2.4 1987

1. "Spins of ^{12}C + ^{12}C resonances via the ^{12}C(^{12}C,$\alpha\alpha$)^{16}O reaction,"
W.D.M. Rae, P.R. Keeling and S.C. Allcock,
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2. "The Gross Structure Resonance Near $E_{CM} = 25$ MeV in ^{12}C + ^{12}C scattering,"
W.D.M. Rae, P.R. Keeling and A.E. Smith,
Phys. Lett. **198B** (1987) 49

3. "10^+ states in ^{20}Ne,"
S.C. Allcock, W.D.M. Rae, P.R. Keeling, A.E. Smith, B.R. Fulton and D.W. Banes,
Phys. Lett. **201B** (1987) 201

2.5 1988

1. "Clustering phenomena and shell effects in nuclear structure and reactions,"
W.D.M. Rae,
Int. J. Mod. Phys. **A3** (1988) 1343–1372

2.6 1989

1. ^{16}O+^{8}Be cluster structure in ^{24}Mg,"
B.R. Fulton, S.J. Bennett, M. Freer, R.D. Page, P.J. Woods, S.C. Allcock, A.E. Smith, W.D.M. Rae and J.S. Lilley,
J. Phys. Soc. Jpn. **58** (1989) Suppl. p.590

2. "^{16}O+^{8}Be breakup of ^{24}Mg,"
B.R. Fulton, S.J. Bennett, M. Freer, R.D. Page, P.J. Woods, S.C. Allcock, A.E. Smith, W.D.M. Rae and J.S. Lilley,
Phys. Lett. **232B** (1989) 56

2.7 1990

1. "A compact high-efficiency ^{8}Be detector,"
S.C. Allcock, P.R. Keeling, W.D.M. Rae, A.E. Smith, S.J. Bennett, M. Freer, B.R. Fulton, R.D. Page and P.J. Woods,
Nucl. Instr. Meth. **A289** (1990) 213

2. "Fission of light nuclei,"
B.R. Fulton and W.D.M. Rae,
J. Phys. **G16** (1990) 333–365

2.8 1991

1. "Evidence for excitation of ^{24}Mg resonant states through the ^{12}C(^{16}O,^{12}C^{12}C)^{4}He reaction at 85 MeV,"
E. Costanzo, M. Lattuada, S. Romano, D. Vinciguerra, N. Cindro, M. Zadro, M. Freer, B.R. Fulton and W.D.M. Rae,
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2. "Search for large cluster breakup in ^{40}Ca,"
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3. "Excitation of ^{24}Mg states through interaction of 85 MeV ^{16}O ions with ^{12}C and ^{24}Mg targets,"
E. Costanzo, M. Lattuada, S. Romano, D. Vinciguerra, N. Cindro, M. Zadro, M. Freer, B.R. Fulton and W.D.M. Rae,
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4. "Near symmetric breakup of ^{25}Mg,"
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5. "Spin measurement for symmetric fission states of ^{24}Mg — a new angle on the ^{12}C+^{12}C interaction,"
B.R. Fulton, S.J. Bennett, M. Freer, J.T. Murgatroyd, G.J. Gyapong, N.S. Jarvis, C.D. Jones, D.L. Watson, J.D. Brown, W.D.M. Rae, A.E. Smith and J.S. Lilley,
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6. "Symmetric and near symmetric fission of ^{24}Mg, ^{28}Si and ^{32}S,"
S.J. Bennett, M. Freer, B.R. Fulton, J.T. Murgatroyd, P.J. Woods, S.C. Allcock, W.D.M. Rae, A.E. Smith, J.S. Lilley and R.R. Betts,
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2.9 1992

1. "Rise time effects in position sensitive detectors,"
   S.J. Bennett, M. Freer, B.R. Fulton and J.T. Murgatroyd,
   Nucl. Instr. Meth. **A311** (1992) 105

2. "Hyperdeformed states in ^{36}Ar and ^{48}Cr in the cranked cluster model",
   W.D.M. Rae and A.C. Merchant,
   Phys. Lett. **B279** (1992) 207–211

3. "The shape eigenstate: a new kind of resonance",
   W.D.M. Rae, A.C. Merchant and B. Buck,
   Phys. Rev. Lett. **69** (1992) 3709–3712

4. "Alpha chain states in 4N–nuclei from ^{20}Ne to ^{32}S",
   A.C. Merchant and W.D.M. Rae,
   Phys. Rev. **C46** (1992) 2096–2097

5. "Systematics of alpha chain states in 4N–nuclei",
   A.C. Merchant and W.D.M. Rae,
   Nucl. Phys. **A549** (1992) 431–438

2.10 1993

1. "Experimental techniques for inverse kinematic reactions using thick targets applied to ^{1}H + ^{23}Na → ^{12}C+ ^{12}C,"
   S.J. Bennett, N.M. Clarke, M. Freer, B.R. Fulton, S.J.A. Hall, O. Karban, J.T. Murgatroyd, G. Tungate, G.J. Gyapong, N.S. Jarvis, D.L. Watson, W.D.M. Rae, A.E. Smith, J.S. Lilley, P.J. Woods and R.D. Page,
   Nucl. Instr. Meth. **A332** (1993) 476

2. "Energy dependence of the angular distributions of a new resonance seen in ^{12}C(^{12}C,^{12}C(0_2^+))^{12}C(0_2^+)",
   A.C. Merchant and W.D.M. Rae,
   J. Phys. **G19** (1993) L89–L93.

3. "Comment on Evidence for superdeformed shape isomeric states in ^{28}Si at excitations above 40 MeV through observations of selective particle decays of ^{16}O + ^{12}C resonances in ^{8}Be and alpha channels",
   J.Zhang, A.C.Merchant and W.D.M.Rae,
   Phys. Rev. **C48** (1993) 2117–2119

4. "Shape eigenstates and other one- and two-dimensional alpha cluster structures in light nuclei.",
   W.D.M.Rae and A.C.Merchant,
   Mod. Phys. Letts. **A8** (1993) 2435–2447

5. "Systematics of 2-dimensional alpha cluster configurations in 4N-nuclei from ^{12}C to ^{44}Ti",
J.Zhang and W.D.M.Rae,
Nucl. Phys. **A564** (1993) 252–270

2.11 1994

1. "Spin assignments for states in ^{20}Ne via the ^{12}C(^{16}O, ^{20}Ne*)^{8}Be transfer reaction",
W.D.M.Rae, S.C.Allcock and J.Zhang,
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2. "Spin assignments for states in ^{16}O via the ^{12}C(^{16}O, ^{16}O*)^{8}Be transfer reaction",
W.D.M.Rae, S.C.Allcock and J.Zhang,
Nucl. Phys. **A568** (1994) 286–305

3. "Resonances in ^{24}Mg revealed in the ^{12}C(^{20}Ne,^{12}C^{12}C)^{8}Be reaction,"
B.R. Fulton, S.J. Bennett, J.T. Murgatroyd, N.S. Jarvis, D.L. Watson, W.D.M. Rae, Y. Chan, D. DiGregorio, J. Scarpaci, J. Suro Prerez and R.G. Stokstad,
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4. "Super- and hyperdeformed states in ^{56}Ni",
J.Zhang, A.C.Merchant and W.D.M.Rae,
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5. "Calculations of Particle Decay Widths of Hyperdeformed Nuclei Using Prolate Spheroidal Coordinates",
A.C.Merchant and W.D.M.Rae,
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6. "Geometric derivations of the second constant of motion for an elliptic 'billiard' and other results",
J. Zhang, A.C. Merchant and W. D. M. Rae,
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7. "Systematics of some 3–dimensional α–cluster configurations in 4N nuclei from ^{16}O to ^{44}Ti",
J. Zhang, W. D. M. Rae and A.C. Merchant,
Nucl. Phys. **A575** (1994) 61–71

8. "Geometry and collectivity in the Bloch-Brink α-cluster model",
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9. "Triangular alpha cluster geometries and harmonic oscillator shell structure",
W.D.M.Rae and J.Zhang,
Mod. Phys. Letts. **A9** (1994) 599–607

10. "Nuclear molecules and nuclear clusters,"
B.R. Fulton,
Z. Phys. **A349** (1994) 227–232

11. "Alpha chain states in 4N-nuclei",
A.C.Merchant and W.D.M.Rae,
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12. "The breakup of ^{24}Mg into ^{16}O+^{8}Be" J.S. Pople, N.M. Clarke, B.R. Fulton, M.J. Leddy, J.T. Murgatroyd, Y. Chan, R.G. Stokstad, W.D.M. Rae, W.N. Catford, S.P. Fox, G.J. Gyapong, D.L. Watson and S.J. Bennett,
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13. "Spin and structure of ^{12}C+ ^{12}C resonances I",
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14. "Spin and structure of ^{12}C+ ^{12}C resonances II",
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15. "Reaction mechanism for the symmetric breakup of ^{24}Mg following interaction with ^{12}C",
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16. "The construction and operation of a hybrid gas-silicon detector for studies of cluster breakup reactions,"
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1. "Association of the ^{12}C+^{12}C breakup states in ^{24}Mg with the quasi-molecular resonances,"
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2. "The ^{12}C+^{12}C '6–α Chain State' Resonance,"
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3. "^{8}Be and α decay of ^{16}O," M.Freer, N.M. Clarke, N. Curtis, B.R. Fulton, M.J. Leddy, S.J. Hall, J.S. Pople, G. Tungate, R.P. Ward, P.M. Simmons, W.D.M. Rae, S.P.G. Chappell, S.P. Fox, C.D. Jones, D.L. Watson, G.J. Gyapong, S.M. Singer and W.N. Catford, *Phys. Rev.* **C51** (1995) 1682–1692

4. "Evidence for ^{16}O+^{12}C cluster structure in ^{28}Si," J.T. Murgatroyd, S.J. Bennett, B.R. Fulton, J.S. Pople, N.S. Jarvis, D.L. Watson, W.D.M. Rae, Y. Chan, D. DiGregorio, J. Scarpaci, J. Suro Perez and R.G. Stokstad, *Phys. Rev.* **C51** (1995) 2230–2232

5. "A schematic model of a 6-α chain state", W.D.M.Rae and A.C.Merchant, *Phys. Rev. Letts.* **74** (1995) 4145–4148

6. "Breakup studies with ^{23}Na", N.S. Jarvis, D.L. Watson, G.J. Gyapong, C.D. Jones, S.J. Bennett, M. Freer, B.R. Fulton, O. Karban, J.T. Murgatroyd, G. Tungate, W.D.M. Rae and A.E. Smith, *Phys. Rev.* **C51** (1995) 2606–2610

7. "Final state interaction in the ^{12}C(^{16}O,^{12}C^{12}C)^{4}He and ^{16}O(^{16}O,^{12}C^{16}O)^{4}He reactions," M.Freer, N.M. Clarke, R. Le Marechal, G. Tungate, R.P. Ward and W.D.M. Rae, *Phys. Rev.* **C51** (1995) 3174–3183

8. "Relationship between the deformed harmonic oscillator and clustering in light nuclei," M. Freer, R.R. Betts and A.H. Wuosmaa, *Nucl. Phys.* **A587** (1995) 36–54

9. "Termination of the ^{12}C–^{12}C cluster states revealed in the ^{12}C(^{20}Ne,^{12}C^{12}C)^{8}Be breakup reaction," J.T. Murgatroyd, S.J. Bennett, N.M. Clarke, B.R. Fulton, G.J. Gyapong, C.D. Jones, D.L. Watson, T.M. Cormier, H. Dejbakhsh, A. Szanto de Toledo and N. Carlin, *Nucl. Phys.* **A587** (1995) 367–

10. "Search for a 7–α chain state," P.M. Simmons, W.D.M. Rae, S.P.G. Chappell, S.P. Fox, C.D. Jones, D.L. Watson, M.Freer, B.R. Fulton, N.M. Clarke, N. Curtis, M.J. Leddy, J.S. Pople, S.J. Hall, R.P. Ward, G. Tungate, W.N. Catford, G.J. Gyapong, S.M. Singer and P.H. Regan, *Phys. Rev.* **C51** (1995) 3500–3503

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2.13 1996

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2. “Search for ^{16}O+ ^{16}O+ ^{16}O structure in ^{48}Cr”,
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3. “Energy dependence of the ^{16}O(^{16}O,^{12}C*)^{20}Ne, ^{12}C(^{16}O,^{12}C*)^{16}O and ^{7}Li(^{16}O,^{12}C*)^{11}B reactions”,
M. Freer, N.M. Clarke, B.R. Fulton, S.J. Hoad, G.R. Kelly, R.A. Le Marechal, R.P. Ward, C.D. Jones, P. Lee, W.N. Catford and G.J. Gyapong,
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3. "A new coupling potential for the analysis of deformed light heavy-ion reactions,"
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4. "Analysis of the ^{12}C + ^{12}C reaction using a new type of coupling potential,"
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9. "Angular correlations from the ^{12}C + ^{16}O breakup of ^{28}Si and ^{12}C + ^{12}C breakup of ^{24}Mg,"
M. Shawcross, N. Curtis, W.N. Catford, N.M. Clarke, B.R. Fulton, S.J. Hall, J.T. Murgatroyd, S.P.G. Chappell, R. Cowin, G. Dillon and D.L. Watson,
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10. "Evidence for a highly deformed band in ^{12}C + ^{16}O breakup of ^{28}Si,"
N.I. Ashwood, J.T. Murgatroyd, N.M. Clarke, M. Freer, B.R. Fulton, A. St.J. Murphy, S.P.G. Chappell, R.L. Cowin, G.K. Dillon, D.L. Watson, W.N. Catford, N. Curtis, M. Shawcross and V. Pucknell,
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11. "The ^{12}C + ^{12}C and ^{16}O + ^{8}Be decay of ^{24}Mg states populated in the ^{12}C(^{20}Ne, ^{24}Mg*)^{8}Be reaction,"
M. Freer, J.T. Murgatroyd, S.M. Singer, N. Curtis, D.J. Henderson, D.J. Hofman and A.H. Wuosmaa,
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J.S. Winfield, S. Fortier, W.N. Catford, S. Pita, N.A. Orr, J. Van de Wiele, Y. Blumenfeld, R. Chapman, S.P.G. Chappell, N.M. Clarke, N. Curtis, M. Freer, S. Galès, H. Langevin-Joliot, H. Laurent, I. Lhenry, J.M. Maison, P. Roussel-Chomaz, M. Shawcross, K. Spohr, T. Suomijarvi and A. de Vismes,
Nucl. Phys. **A683** (2001) 48–78

13. "Decay angular correlations and spectroscopy for ^{10}Be$^{*} \rightarrow {}^{4}$He + ^{6}He,"
N. Curtis, D.D. Caussyn, N.R. Fletcher, F. Maréchal, N.Fay and D. Robson,
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14. "Nuclear Molecules,"
M. Freer,
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15. "The 'How and Why' of nucleon transfer reactions with radioactive beams,"
W.N. Catford,
Acta. Phys. Pol. **B32** (2001) 1049

16. "A determination of the ^{6}He + p interaction potential,"
A.de. Vismes, P. Roussel-Chomaz, W. Mittig, A. Pakou, N. Alamanos, F. Auger, J.-C. Angelique, J. Barrette, A.V. Belozyorov, C. Borcea, W.N. Catford, M.D. Cortina-Gil, Z. Dlouhy, A. Gillibert, V. Lapoux, A. Lepine-Szily, S.M. Lukyanov, F. Marie, A. Musumarra, F. de Oliveira, N.A. Orr, S. Ottini-Hustache, Y.E. Penionzhkevich, F. Sarazin, H. Savajols and N. Skobelev,
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17. "Radiative proton capture on ^{6}He,"
E. Sauvan, F.M. Marques, H.W. Wilschut, N.A. Orr, J.C. Angelique, C. Borcea, W.N. Catford, N.M. Clarke, P. Descouvemont, J. Diaz, S. Grevy, A. Kugler, V. Kravchuk, M. Labiche, C. Le Brun, E. Lienard, H. Lohner, W. Mittig, R.W. Ostendorf, S. Pietri, P. Roussel-Chomaz, M.G. Saint laurent, H. Savajols, V. Wagner and N. Yahlali,
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3 Papers Accepted for Publication

1. "New findings for the $^{12}C + ^{12}C$ reaction,"
   I. Boztosun and W.D.M. Rae,
   Accepted for publication in *Physics of Atomic Nuclei*

2. "A global potential analysis of the $^{16}O + ^{28}Si$ reaction using a new yype of coupling potential,"
   I. Boztosun and W.D.M. Rae,
   Accepted for publication in *Phys. Rev. C.*

3. "Three-body correlations in Borromean haloes,"
   F.M. Marqués, M. Labiche, N.A. Orr, J.C. Angélique, L. Axelsson, B. Benoit, U.C. Bergmann, M.J.G. Borge, W.N. Catford, S.P.G. Chappell, N.M. Clarke, G. Costa, N. Curtis, A. D'Arrigo, F. de Oliveira Santos, E. de Goes Brennard, O. Dorvaux, M. Freer, B.R. Fulton, G. Giardina, S. Grévy, D. Guillemaud-Mueller, F. Hanappe, B. Heusch, B. Jonson, C. Le Brun, S. Leenhardt, M. Lewitowicz, M.J. Lopez, K. Markenroth, M. Motta, A.C. Mueller, T. Nilsson, A. Ninane, G. Nyman, I. Piqueras, K. Riisager, M.G. Saint Laurent, F. Sarazin, S.M. Singer, O. Sorlin, L.Stuttgé,
   Accepted for publication in *Phys. Rev. C.*

4. "Systematics of breakup yield for weakly bound nuclei,"
   B.R. Fulton, R.J. Woolliscroft, N.M. Clarke and M. Freer,
   Accepted for publication in *Phys. Rev. C.*

4 Papers Recently Submitted

1. "Near threshold three-body final states in ^{7}Li + ^{7}Li reactions at $E_{\mathrm{lab}} = 34$ MeV," J.A. Liendo, N. Curtis, D.D. Caussyn, N.R. Fletcher and T. Kurtukian-Nieto, Submitted to *Phys. Rev. C.*

5 Papers in Preparation

1. "Observation of an octupole rotational band populated in the ^{14}C + α decay of ^{18}O and evidence for the ^{18}O + α decay of ^{22}Ne,"
   N. Curtis, D.D. Caussyn, C. Chandler, M.W. Cooper, N.R. Fletcher, R.W. Laird and J. Pavan,
   To be submitted to *Phys. Rev. C.*

2. "Search for analogue molecular states in ^{16}C,"
   B. Greenhalgh, B.R. Fulton, D.L. Watson, N.M. Clarke, L. Donadille, M. Freer, P.J. Leask, W.N. Catford, K.L. Jones, and D. Mahboub

6 Invited Talks at Conferences

1. "The Study of Cluster States in Light Nuclei via Heavy-ion-alpha Correlation Measurements,"
   W.D.M. Rae,
   Proc. 4th Int. Conf. on Clustering Aspects of Nuclear Structure and Nuclear Reactions, Chester, 1984 (D. Reidel, publisher).

2. "Clustering aspects of nuclear structure and reactions,"
   W.D.M. Rae,
   Int. Nucl. Phys. Conf., Harrogate, 1986, Inst. of Phys. Conf. Series, **86**, p. 189–203

3. "Symmetric Fission of *sd* Shell Nuclei,"
   American Physical Society Spring Meeting, Crystal City VA (USA), 1987.

4. "Clustering Phenomena and Shell Effects in Nuclear Structure and Reactions,"
   W.D.M. Rae,
   Proc. of the $X^{\mathbf{th}}$ Symposium on Nuclear Physics, Oaxtepec, Mexico,
   Notas de Fisica **10** (1987) 283

5. "Continuum Breakup Spectroscopy in *sd* Shell Nuclei,"
   W.D.M. Rae,
   Nuclear Breakup and Recoil Spectroscopy Study Weekend,
   Daresbury (UK), October 1987.

6. "Clustering and Shape Information from Breakup Reactions,"
   IOP Nuclear Physics Conference, Manchester (UK), March 1988.

7. "Relationships between Clustering and Shell Structure in Nuclei and Nuclear Reactions,"
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M. Freer,
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M. Freer,
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