

ARTICOLE

1. NUCL INSTRUM & METH IN PHYS RES A 836, 1-10, (2016)

The ROSPHERE γ -ray spectroscopy array

D. Bucurescu, I.Căta-Danil, G.Ciocan, C.Costache, D.Deleanu, R.Dima, D. Filipescu, N.Florea, D.G.Ghiță, T.Glodariu, M.Ivașcu, R.Lică, N.Mărginean, R. Mărginean, C.Mihai, A.Negret, C.R.Niță, A.Olăcel, S.Pascu, T.Sava, L.Stroe, A. Șerban, R. Șuvăilă, S.Toma, N.V.Zamfir, G.Căta-Danil, I.Gheorghe, I.O.Mitu, G. Suliman, C.A.Ur, T.Braunroth, A.Dewald, C.Fransen, A.M.Bruce, Zs.Podolyak, P.H.Regan, O.J.Roberts

2. PHYSICAL REVIEW C 91(2), 027302, (2015)

Lifetime of the yrast $I-\pi=5(-)$ state and $E1$ hindrance in the transitional nucleus Ce-136(58)

T. Alharbi, P. H. Regan, N. Mărginean, Zs. Podolyák, O. J. Roberts, A. M. Bruce, N. Alkhomashi, R. Britton, D. Bucurescu, D. Deleanu, D. Filipescu, D. Ghiță, T. Glodariu, C. Mihai, K. Mulholland, R. Lica, R. Mărginean, M. Nakhostin, A. Negret, C. R. Nita, L. Stroe, T. Sava, C. Townsley, and N. V. Zamfir

3. PHYSICAL REVIEW C 91(3), 034321, (2015)

Detailed spectroscopy of quadrupole and octupole states in Yb-168

S. Pascu, D. Bucurescu, Gh. Căta-Danil, V. Derya, M. Elvers, D. Filipescu, D. G. Ghiță, T. Glodariu, A. Hennig, C. Mihai, N. Mărginean, R. Mărginean, A. Negret, L. Netterdon, S. G. Pickstone, T. Sava, M. Spieker, L. Stroe, N. V. Zamfir, and A. Zilges

4. PHYSICAL REVIEW C Volume: 89 Issue: 6 Article Number: 064314, (2014)

Fast-timing lifetime measurements of excited states in Cu-67

Nita, C. R.; Bucurescu, D.; Marginean, N.; Avrigeanu, M; Bocchi, G; Bottoni, S; Bracco, A; Bruce, AM; Cata-Danil, G; Colo, G; Deleanu, D; Filipescu, D; Ghita, DG; Glodariu, T; Leoni, S; Mihai, C; Mason, PJR; Marginean, R; Negret, A; Pantelica, D; Podolyak, Z; Regan, PH; Sava, T; Stroe, L; Toma, S; Ur, CA; Wilson, E

5. PHYSICAL REVIEW C Volume: 89 Issue: 5 Article Number: 054302, (2014)

Probing particle-phonon-coupled states in the neutron-rich nucleus Cu-65 by lifetime measurements with fast-timing techniques

Bocchi, G.; Leoni, S.; Bottoni, S.; Benzoni, G; Bracco, A; Bortignon, PF; Colo, G; Belvito, B; Nita, CR; Marginean, N; Filipescu, D; Ghita, D; Glodariu, T; Lica, R; Marginean, R; Mihai, C; Negret, A; Sava, T; Stroe, L; Toma, S; Bucurescu, D; Georghe, I; Suvaila, R; Deleanu, D; Ur, CA; Aydin, S

6. NUCLEAR DATA SHEETS Volume: 120 SI Pages: 59-61, (2014)

Sub-nanosecond Half-life Measurement of the Yrast $I-\pi=5(-)$ State in the $N=78$ Nucleus $Ce-136(58)$ using Fast-timing Coincident Gamma-ray Spectroscopy

Alharbi, T.; Regan, P. H.; Marginean, N.; Podolyak, Zs; Bajoga, A; Britton, R; Bucurescu, D; Deleanu, D; Filipescu, D; Ghita, D; Glodariu, T; Mihai, C; Mulholland, K; Marginean, R; Negret, A; Nita, CR; Patel, Z; Roberts, OJ; Stroe, L; Sava, T; Townsley, C; Zamfir, NV

7. PHYSICAL REVIEW C 87, 014323 (2013)

Electromagnetic transition rates in the $N = 80$ nucleus $13858Ce$

T.Alharbi, P.H.Regan, P.J.R.Mason, N.Marginean, Zs.Podolyak, A.M.Bruce, E.C.Simpson, A.Algora, N.Alazemi, R.Britton, M.R.Bunce, D.Bucurescu, N.Cooper, D.Deleanu, D.Filipescu, W.Gelletly, D.Ghita, T.Glodariu, G.Ilie, S.Kisyov, J.Lintott, S.Lalkovski, S.Liddick, C.Mihai, K.Mulholland, R.Marginean, A.Negret, M.Nakhostin, C.R.Nita, O.J.Roberts, S.Rice, J.F.Smith, L.Stroe, T.Sava, C.Townsley, E.Wilson, V.Werner, M.Zhekova, N.V.Zamfir

8. PHYSICAL REVIEW C Volume: 88 Issue: 3 Article Number: 034604, (2013)

Cross sections for inelastic scattering of neutrons on $Si-28$ and comparison with the $Mg-25(\alpha, n)Si-28$ reaction

Negret, A; Borcea, C; Bucurescu, D; Deleanu, D; Dessagne, P; Filipescu, D; Ghita, D; Glodariu, T; Kerveno, M; Marginean, N; Marginean, R; Mihai, C; Pascu, S; Plompen, AJM; Sava, T; Stroe, L

9. PHYSICAL REVIEW C Volume 88 Issue 4 Article Number 044301, (2013)

Half-life of the yrast $2+$ state in $188W$: Evolution of deformation and collectivity in neutron-rich tungsten isotopes

P.J.R. Mason, Zs. Podolyák, N. Mărginean, P. H. Regan, P. D. Stevenson, V. Werner, T. Alexander, A. Algora, T. Alharbi, M. Bowry, R. Britton, A. M. Bruce, D. Bucurescu, M. Bunce, G. Căta-Danil, I. Căta-Danil, N. Cooper, D. Deleanu, D. Delion, D. Filipescu, W. Gelletly, D. Ghiță, I. Gheorghe, T. Glodariu, G. Ilie, D. Ivanova, S. Kisyov, S. Lalkovski, R. Lica, S. N. Liddick, R. Mărginean, C. Mihai, K. Mulholland, C. R. Nita, A. Negret, S. Pascu, S. Rice, O. J. Roberts, T. Sava, J. F. Smith, P.-A. Söderström, L. Stroe, G. Suliman, R. Suvaila, S. Toma, C. Townsley, E. Wilson, R. T. Wood, M. Zhekova, and C. Zhou

10. PHYSICAL REVIEW C 85, 064303 (2012)

Half-life of the $I\pi = 4-$ intruder state in $34P$: $M2$ transition strengths approaching the island of inversion

P.J.R.Mason, T.Alharbi, P.H.Regan, N.Marginean, Zs.Podolyak, E.C.Simpson, N.Alkhomashi, P.C.Bender, M.Bowry, M.Bostan, D.Bucurescu, A.M.Bruce, G.Cata-Danil, I.Cata-Danil, R.Chakrabarti, D.Deleanu, P.Detistov, M.N.Erduran, D.Filipescu, U.Garg, T.Glodariu, D.Ghita, S.S.Ghugre, A.Kusoglu, R.Marginean, C.Mihai, M.Nakhostin, A.Negret, S.Pascu, C.Rodriguez Triguero, T.Sava, A.K.Sinha, L.Stroe, G.Suliman, N.V.Zamfir

11. EUROPEAN PHYSICAL JOURNAL A 48(1), 2012

Low-spin excitations in Sm-146

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Half-life measurements of excited states in Te-132, Xe-134

Roberts, OJ; Bruce, AM; Browne, F; Marginean, N; Alexander, T; Alharbi, T; Bucurescu, D; Deleanu, D; Delion, D; Filipescu, D; Fraile, L; Gheorghe, I; Ghita, D; Glodariu, T; Ivanova, D; Kisyov, S; Marginean, R; Mason, PJR; Mihai, C; Mulholland, K; Negret, A; Nita, C; Olaizola, B; Pascu, S; Soderstrom, PA; Regan, PH; Sava, T; Stroe, L; Toma, S; Townsley, C ACTA PHYSICA POLONICA B Volume: 44 Issue: 3 Pages: 403-406, 2013

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7Li-Induced Reactions for Fast-Timing With LaBr3:Ce Detectors

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Precision Lifetime Measurements Using LaBr3 Detectors Using Stable and Radioactive Beams

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Werner, V; Lalkovski, S; Kisyov, S; Browne, F; Soderstrom, PA; Watanabe, H; Sumikama, T HEAVY ION ACCELERATOR SYMPOSIUM 2013

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*In-beam electronic timing measurements using the mixed HPGe – LaBr3(Ce) array
ROSPHERE*

N. Marginean

International Worksop "Physics with large arrays of novel scintillators", Dublin, Ireland, 2014

ROSPHERE – a dedicated in-beam fast timing HPGe-LaBr3(Ce) array

N. Marginean

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