

List of papers of Dr. Dimiter L. Balabanski

A. Papers in International Refereed Journals

Nature Physics, ISSN: 1745-2473, NPG, McMillan Publishers Ltd, UK, EF=0.15208, AI=14.0488

1. Y.Ichikawa, H.Ueno, Y.Ishii, T.Furukawa, A.Yoshimi, D.Kameda, H.Watanabe, N.Aoi, K.Asahi, D.L.Balabanski, R.Chevrier, J.M.Daugas, N.Fukuda, G.Georgiev, H.Hayashi, H.Iijima, N.Inabe, T.Inoue, M.Ishihara, T.Kubo, T.Nanao, T.Ohnishi, K.Suzuki, M.Tsuchiya, H.Takeda, M.M.Rajabali
Producing spin-handled rare-isotope beams
Nature Phys. **8**, 918-922 (2012); DOI:10.1038/NPHYS2457

Physical Review Letters, ISSN: 0031-9007, American Institute of Physics, USA, EF=1.23313, AI=3.4704

2. G.Neyens, N.Coulier, S.Teughels, G.Georgiev, B.A.Brown, W.F.Rogers, D.L.Balabanski, R.Coussement, A.Lepine-Szily, M.Lewitowicz, W.Mittig, F.de Oliveira Santos, P.Roussel-Chomaz, S.Ternier, K.Vyvey, D.Cortina-Gil
Magnetic moment of the 1^- ground state in ^{18}N measured with a new β level mixing nuclear magnetic resonance technique
Phys. Rev. Lett. **82**, 497-500 (1999)
3. M.Trotta, J.L.Sida, N.Alamanos, A.Andreyev, F.Auger, D.L.Balabanski, C.Borcea, N.Coulier, A.Drouart, D.J.C.Durand, G.Georgiev, A.Gillibert, J.D.Hinnefeld, M.Huyse, C.Jouanne, V.Lapoux, A.Lepine, A.Lumbroso, F.Marie, A.Musumarra, G.Neyens, S.Ottini, R.Raabe, S.Ternier, P.Van Duppen, K.Vyvey, C.Volant, R.Wolski
Large enhancement of the sub-barrier fusion probability for a halo nucleus
Phys. Rev. Lett. **84**, 2342-2345 (2000)
4. D.L.Balabanski, K.Vyvey, G.Neyens, N.Coulier, R.Coussement, G.Georgiev, A.Lepine-Szily, S.Ternier, S.Teughels, M.Mineva, P.M.Walker, P.Blaha, D.Almehed, S.Frauendorf
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Phys. Rev. Lett. **86**, 604-607 (2001)
5. K.Starosta, T.Koike, C.J.Chicara, D.B.Fossan, D.R.LaFosse, A.A.Hecht, C.W.Beausang, M.A.Caprio, J.R.Cooper, R.Krucken, J.R.Novak, N.V.Zamfir, K.E.Zyromski, D.J.Hartley, D.L.Balabanski, J.-Y.Zhang, S.Frauendorf, V.I.Dimitrov
Chiral doublet dtructure in odd-odd $N = 75$ isotones: Chiral vibrations
Phys. Rev. Lett. **86**, 971-974 (2001)
6. K.Vyvey, S.Chmel, G.Neyens, H.Hubel, D.L.Balabanski, D.Borremans, N.Coulier, R.Coussement, G.Georgiev, N.Nenoff, S.Pancholi, D.Rossbach, R.Schwengner, S.Teughels, S.Frauendorf

- Quadrupole moment of the 11- intruder isomer in ^{196}Pb and its implications for the 16 shears band head*
 Phys. Rev. Lett. **88**, 102502 (2002)
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Magnetic moment of the fragmentation-aligned ^{61}Fe ($9/2^+$) isomer
 Phys. Rev. Lett. **93**, 142503 (2004)
9. D.Tonev, G. de Angelis, P.Petkov, A.Dewald, S.Brant, S.Frauendorf, D.L.Balabanski, P.Pejovic, D.Bazzacco, P.Bednarczyk, F.Camera, A.Fitzler, A.Gadea, S.Lenzi, S.Lunardi, N.Marginean, O.Moller, D.R.Napoli, A.Paleni, C.M.Petrache, G.Prete, K.O.Zell, Y.H.Zhang, Jing-ye Zhang, Q.Zhong, D.Curien
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Coulomb excitation of the odd-odd nuclei $^{68,70}\text{Cu}$; First use of post-accelerated isomeric beams
 Phys. Rev. Lett. **98**, 122701 (2007)
11. I.Stefanescu, G.Georgiev, D.L.Balabanski, N.Blasi, A.Blazhev, N.Bree, J.Cederkall, T.E.Cocolios, T.Davinson, J.Eberth, A.Ekstrom, V.N.Fedosseev, L.M.Fraile, S.Franchoo, K.Gladnishki, M.Huyse, O.Ivanov, J.Iwanicki, J.Jolie, T.Konstaninopoulos, Th.Kroll, R.Krucken, U.Koster, A.Lagoyannis, G.Lo Bianco, P.Maierbeck, B.A.Marsh, P.Napiorkowski, N.Patronis, D.Pauwels, G.Rainovski, P.Reiter, J.Van De Walle, P.Van Duppen, D.Voulot, N.Warr, D.Weisshaar, F.Wenander, K.Wrzosek
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Shape coexistence and shell quenching in $^{43}_{16}S_{27}$
Phys. Rev. Lett. **102**, 092501 (2009)
 14. O.Wieland, A.Bracco, F.Camera, G.Benzoni, N.Biasi, S.Brambilla, F.C.L.Crespi, S.Leoni, B.Million, R.Nicolini, A.Maj, P.Bednarczyk, J.Grebosz, M.Kmiecik, W.Meczynski, J.Styczen, T.Aumann, A.Banu, T.Beck, F. Becker, L.Caceres, P.Doornenbal, H.Emling, J.Gerl, H. Geissel, M.Gorska, O.Kavatsyuk, M.Kavatsyuk, I.Kojouharov, N.Kurz, R.Lozeva, N.Saito, T.Saito, H.Schaffner, H.-J.Wollersheim, J.Jolie, P.Reiter, N.Warr G.de Angelis, A.Gadea, D.Napoli, S.Lenzi, S.Lunardi, D.Balabanski, G.Lo Bianco, C.Petrache, A.Saltarelli, M.Castoldi, A.Zucchiatti, J.Walker, A.Burger
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Is the $7/2^-_1$ isomeric state of ^{43}S spherical?
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 16. A.Krasznahorkay, L.Stuhl, M. Csatlos, A.Algora, J.Gulyas, J.Timar, N.Paar, D.Vretenar, K.Boretzky, M.Heil, Yu.A.Litvinov, D.Rossi, C.Scheidenberger, H.Simon, H.Weick, A.Bracco, S.Brambilla, N.Biasi, F.Camera, A.Giaz, B.Million, L.Pellegrini, S.Riboldi, O.Wieland, S.Altstadt, M.Fonseca, J.Glorius, K.Gobel, T.Heftrich, A.Koloczek, S. Krackmann, C.Langer, R.Plag, M.Pohl, G.Rastrepina, R.Reifarth, S.Schmidt, K.Sonnabend, M.Weigand, M.N.Harakeh, N.Kalantar-Nayestanaki, C.Rigollet, S.Bagchi, M.A.Najafi, T.Aumann, L.Atar, M.Heine, M.Holl, A.Movsesyan, P.Schrock, V.Volkov, F.Wamers, E.Fiori, B.Loher, J.Marganec, D.Savran, H.T.Johansson, P.Diaz Fernandez, U.Garg, D.L.Balabanski
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 17. D.T.Yordanov, D.L.Balabanski, J.Bieron, M.L.Bissell, K.Blaum, I.Budincevic, S.Fritzsche, N.Frommgen, G.Georgiev, Ch.Geppert, M.Hammen, K.Kreim, M.Kowalska, A.Krieger, R.Neugart, W.Nortershauser, J.Papuga, S.Schmidt
Spins, Electromagnetic Moments, and Isomers of $^{107-129}Cd$
Phys. Rev. Lett. **110**, 192501 (2013)
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31. G.Ilie, G.Neyens, G.S.Simpson, J.Jolie, A.Blazhev, H.Grawe, R.L.Lozeva, N.Vermeulen, L.Atanasova, D.L.Balabanski, F.Becker, P.Bednarczyk, C.Brandau, L.Caceres, S.K.Chamoli, J.M.Daugas, P.Doornenbal, J.Gerl, M.Gorska, J.Grebosz, M.Hass, M.Kmiecik, I.Kojouharov, N.Kurz, M.Ionescu-Bujor, A.Jungclaus, A.Maj, S.Mallion, O.Perru, M.Pfutzner, Zs.Podolyak, W.Prokopowicz, M.De Rydt, T.R.Saito, H.Schaffner, K.Turzo, J.Walker, E.Werner-Malento, H.-J. Wollersheim
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