

Curriculum Vitae

Name

Designation

Ajay Y. Deo

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Education

- **Ph.D.:** University of Mumbai, April 2006
- **Master of Science, Physics:** University of Mumbai(Bombay), May 2000.
- **Bachelor of Science, Physics:** University of Mumbai(Bombay), May 1998.

Research:

I work in the field of experimental nuclear spectroscopy which involves beta-decay studies, high-spin studies of nuclei produced using heavy-ion fusion-evaporation reactions, and related instrumentation. I have worked at various institutes world-wide after completing Ph.D.

[1] Postdoctoral Fellow: Tata Institute of Fundamental Research(TIFR) - Mumbai, India from August 1, 2006 to January 30, 2008.

[2] Research Fellow: Department of Physics, University of Surrey, Guildford, UK from February 4, 2008 to May 2, 2010.

[3] Post-Doctoral Research Associate: Department of Physics and Applied Physics, University of Massachusetts Lowell, MA, USA from May 3, 2010 to April 2012.

[4] Research Associate: UM-DAE Centre for Excellence in Basic Sciences, Mumbai, India from May 2012 to November 2012.

As a research fellow at above mentioned institutions, I have participated and played a major role in performing and setting up experiments at following international facilities:

ISOLDE CERN, Geneva, Switzerland;

JYFL, Jyväskylä, Finland;

GSI, Darmstadt, Germany;

LNL, Legnaro, Italy;

Argonne National Laboratory, Chicago, USA;

TIFR, Mumbai, India

Teaching Experience

[1] **Adjunct Faculty**: Department of Physics and Applied Physics, University of Massachusetts Lowell, Lowell MA, USA since September 2011.

[2] **Visiting Faculty**: Gogate Jogalekar College, Ratnagiri (affiliated to University of Mumbai), 2003-05.

[3] Conducted laboratory course work for M.Sc.-II (Nuclear Physics) students at the Department of Physics, University of Mumbai, 2002-05

[4] Also, as a Postdoctoral Research Fellow both at Surrey and Lowell, I have been helping Ph.D. students in the data analysis and interpreting results as part of their research involving beta-decay, and high-spin nuclear studies.

Recent Talks:

1. Structures of ^{201}Po and ^{205}Rn from β -decay studies. (**Invited**)

International workshop on:- Frontiers in Gamma Ray Spectroscopy; March 2-4, 2009, Tata Institute of Fundamental Research, Mumbai, India.

2. Spectroscopy of Indium isotopes: understanding evolution of shears mechanism.

50th Anniversary Symposium on Nuclear Sizes and Shapes; June 23-25 2008, University of Surrey, Guildford, UK.

3. Spectroscopy in $A \approx 110$ mass region.

February 28, 2008, University of Surrey, Guildford, UK.

4. Evolution of collectivity in In isotopes & exploring Incomplete Fusion (ICF) to produce unexplored In's.

January 2008, Tata Institute of Fundamental Research, Mumbai, India.

List of Publications

[A] In International Refereed Journals

1. *Multiple β^- decaying states in ^{194}Re : Shape evolution in neutron-rich osmium isotopes.*
N.Al-Dahan, P.H.Regan, Zs.Podolyák, P.M.Walker, N.Alkhomashi, G.D.Dracoulis, G.Farrelly, J.Benlliure, S.B.Pietri, R.F.Casten, P.D.Stevenson, W.Gelletly, S.J.Steer, A.B.Garnsworthy, E.Casarejos, J.Gerl, H.J.Wollersheim, J.Grebosz, M.Górska, I.Kojouharov, H.Schaffner, A.Algora, G.Benzoni, A.Blazhev, P.Boutachkov, A.M.Bruce, I.J.Cullen, A.M.D.Bacelar, **A.Y.Deo**, M.E.Estevez, Y.Fujita, R.Hoischen, R.Kumar, S.Lalkovski, Z.Liu, P.J.Mason, C.Mihai, F.Molina, D.Mucher, B.Rubio, A.Tamii, S.Tashenov, J.J.Valiente-Dobon, P.J.Woods
Phys.Rev. C**85**, 034301 (2012).
2. *First measurement of beta decay half-lives in neutron-rich Tl and Bi isotopes.*
G.Benzoni, A.I.Morales, J.J.Valiente-Dobon, A.Gottardo, A.Bracco, F.Camera, F.C.L.Crespi, A.M.Corsi, S.Leoni, B.Million, R.Nicolini, O.Wieland, A.Gadea, S.Lunardi, P.Boutachkov, A.M.Bruce, M.Górska, J.Grebosz, S.Pietri, Zs.Podolyák, M.Pfutzner, P.H.Regan, H.Weick, J.Alcantara Nunez, A.Algora, N.Al-Dahan, G.de Angelis, Y.Ayyad, N.Alkhomashi, P.R.P.Allegro, D.Bazzacco, J.Benlliure, M.Bowry, M.Bunce, E.Casarejos, M.L.Cortes, A.M.D.Bacelar, **A.Y.Deo**, C.Domingo-Pardo, M.Doncel, Zs.Dombradi, T.Engert, K.Eppinger, G.F.Farrelly, F.Farinon, E.Farnea, H.Geissel, J.Gerl, N.Goel, E.Gregor, T.Habermann, R.Hoischen, R.Janik, S.Klupp, I.Kojouharov, N.Kurz, S.Mandal, R.Menegazzo, D.Mengoni, D.R.Napoli, F.Naqvi, C.Nociforo, A.Prochazka, W.Prokopowicz, F.Recchia, R.V.Ribas, M.W.Reed, D.Rudolph, E.Sahin, H.Schaffner, A.Sharma, B.Sitar, D.Siwal, K.Steiger, P.Strmen, T.P.D.Swan, I.Szarka, C.A.Ur, P.M.Walker, H.-J.Wollersheim
Phys.Lett. B**715**, 293 (2012).
3. *New Isomers in the Full Seniority Scheme of Neutron-Rich Lead Isotopes: The Role of Effective Three-Body Forces.*
A.Gottardo, J.J.Valiente-Dobon, G.Benzoni, R.Nicolini, A.Gadea, S.Lunardi, P.Boutachkov, A.M.Bruce, M.Górska, J.Grebosz, S.Pietri, Zs.Podolyák, M.Pfutzner, P.H.Regan, H.Weick, J.Alcantara Nunez, A.Algora, N.Al-Dahan, G.de Angelis, Y.Ayyad, N.Alkhomashi, P.R.P.Allegro, D.Bazzacco, J.Benlliure, M.Bowry, A.Bracco, M.Bunce, F.Camera, E.Casarejos, M.L.Cortes, F.C.L.Crespi, A.Corsi, A.M.D.Bacelar, **A.Y.Deo**, C.Domingo-Pardo, M.Doncel, Zs.Dombradi, T.Engert, K.Eppinger, G.F.Farrelly, F.Farinon, E.Farnea, H.Geissel, J.Gerl,

N.Goel, E.Gregor, T.Habermann, R.Hoischen, R.Janik, S.Klupp, I.Kojouharov, N.Kurz, S.M.Lenzi, S.Leoni, Mandal, R.Menegazzo, D.Mengoni, B.Million, A.I.Morales, D.R.Napoli, F.Naqvi, C.Nociforo, A.Prochazka, W.Prokopowicz, F.Recchia, R.V.Ribas, M.W.Reed, D.Rudolph, E.Sahin, H.Schaffner, A.Sharma, B.Sitar, D.Siwal, K.Steiger, P.Strmen, T.P.D.Swan, I.Szarka, C.A.Ur, P.M.Walker, O.Wieland, H-J.Wollersheim, F.Nowacki, E.Maglione, A.P.Zuker
Phys. Rev. Lett.**109**, 162502 (2012).

4. *Long-lived isomers in neutron-rich $Z=72-76$ nuclides.*

M.W.Reed, P.M.Walker, I.J.Cullen, Yu.A.Litvinov, D.Shubina, G.D.Dracoulis, K.Blaum, F.Bosch, C.Brandau, J.J.Carroll, D.M.Cullen, **A.Y.Deo**, B.Detwiler, C.Dimopoulou, G.X.Dong, F.Farinon, H.Geissel, E.Haettner, M.Heil, R.S.Kempley, R.Knobel, C.Kozhuharov, J.Kurcewicz, N.Kuzminchuk, S.Litvinov, Z.Liu, R.Mao, C.Nociforo, F.Nolden, W.R.Plass, Zs.Podolyak, A.Prochazka, C.Scheidenberger, M.Steck, Th.Stohlker, B.Sun, T.P.D.Swan, G.Trees, H.Weick, N.Winckler, M.Winkler, P.J.Woods, F.R.Xu, T.Yamaguchi
Phys.Rev. C**86**, 054321 (2012).

5. *Trap-assisted separation of nuclear states for gamma-ray spectroscopy: the example of ^{100}Nb .*

C.Rodriguez Triguero, A.M.Bruce, T.Eronen, I.D.Moore, M.Bowry, A.M.D.Bacelar, **A.Y.Deo**, V.-V.Elomaa, D.Gorelov, J.Hakala, A.Jokinen, A.Kankainen, P.Karvonen, V.S.Kolhinen, J.Kurpeta, T.Malkiewicz, P.J.R.Mason, H.Penttila, M.Reponen, S.Rinta-Antila, J.Rissanen, A.Saastamoinen, G.S.Simpson, J.Aysto
J.Phys.(London) G**39**, 015101 (2012).

6. *Small quadrupole deformation for the dipole bands in ^{112}In .*

T.Trivedi, R.Palit, J.Sethi, S.Saha, S.Kumar, Z.Naik, V.V.Parkar, B.S.Naidu, **A.Y.Deo**, A.Raghav, P.K.Joshi, H.C.Jain, S.Sihotra, D.Mehta, A.K.Jain, D.Choudhury, D.Negi, S.Roy, S.Chattopadhyay, A.K.Singh, P.Singh, D.C.Biswas, R.K.Bhowmik, S.Muralithar, R.P.Singh, R.Kumar, K.Rani
Phys.Rev. C**85**, 014327 (2012).

7. *Structural change of the unique-parity $\pi h_{11/2} \otimes \nu h_{11/2}$ configuration in ^{134}Cs .*

H.Pai, G.Mukherjee, A.Raghav, R.Palit, C.Bhattacharya, S.Chanda, T.Bhattacharjee, S.Bhattacharyya, S.K.Basu, A.Goswami, P.K.Joshi, B.S.Naidu, Sushil K.Sharma, **A.Y.Deo**, Z.Naik, R.K.Bhowmik, S.Muralithar, R.P.Singh, S.Kumar, S.Sihotra, D.Mehta
Phys. Rev. C**84**, 041301(R) (2011).

8. *Electromagnetic properties of vibrational bands in ^{170}Er .*

D.D.DiJulio, J.Cederkall, C.Fahlander, A.Ekstrom, P.Golubev, D.D.DiJulio,

J.Cederkall, C.Fahlander, A.Ekstrom, P.Golubev, K.Mattsson, D.Rudolph, G.de Angelis, S.Aydin, **A.Y.Deo**, E.Farnea, G.Farrelly, K.Geibel, C.He, J.Iwanicki, R.Kempley, N.Marginean, R.Menegazzo, D.Mengoni, R.Orlandi, Z.Podolyák, F.Recchia, P.Reiter, E.Sahin, J.Smith, P.A.Soderstrom, D.A.Torres, G.M.Tveten, C.A.Ur, J.J.Valiente-Dobon, A.Wendt, M.Zielinska
Eur.Phys. J. A **47**, 25 (2011).

9. *Structures of ^{201}Po and ^{205}Rn from EC/β^+ -decay studies.*
A.Y. Deo, Zs. Podolyák, P.M. Walker, A. Algora, B. Rubio, J. Agramunt, L.M. Fraile, N. Al-Dahan, N. Alkhomashi, J.A. Briz, E. Estevez, G. Farrelly, W. Gelletly, A. Herlert, U. Köster, A. Maira, and S. Singla,
Phys. Rev. C**81**, 024322 (2010) (8 pages) (**Impact Factor: 03.477**).
10. *Discovery of Highly Excited Long-Lived Isomers in Neutron-Rich Hafnium and Tantalum Isotopes through Direct Mass Measurements.*
M. W. Reed, I. J. Cullen, P. M. Walker, Yu. A. Litvinov, K. Blaum, F. Bosch, C. Brandau, J. J. Carroll, D. M. Cullen, **A. Y. Deo**, B. Detwiler, C. Dimopoulou, G. D. Dracoulis, F. Farinon, H. Geissel, E. Haettner, M. Heil, R. S. Kempley, R. Knobel, C. Kozhuharov, J. Kurcewicz, N. Kuzminchuk, S. Litvinov, Z. Liu, R. Mao, C. Nociforo, F. Nolden, W. R. Plass, A. Prochazka, C. Scheidenberger, M. Steck, Th. Stohlker, B. Sun, T. P. D. Swan, G. Trees, H. Weick, N. Winckler, M. Winkler, P. J. Woods, and T. Yamaguchi
Phys. Rev. Lett.**105**, 172501 (2010) (**Impact Factor: 07.328**).
11. *Structure of degenerate dipole bands in ^{106}In and investigation of similar structure in neighbouring odd-odd isotopes.*
R. Palit, **A.Y. Deo**, Z. Naik, S. Sihotra, S. Kumar, P.K. Joshi, D. Mehta, and H.C. Jain,
Nucl. Phys. A**834** 81c–83c (2010).
12. *Level structures in the $^{107}_{49}\text{In}$ nucleus and their microscopic description.*
S. Sihotra, Z. Naik, R. Palit, **A.Y. Deo**, S. Kumar, P. K. Joshi, D. Mehta, and N. Singh,
Eur. Phys. J. A **43**, 45-53 (2010).
13. *Nuclear structure ‘southeast’ of ^{208}Pb : Isomeric states in ^{208}Hg and ^{209}Tl .*
N. Al-Dahan, Zs. Podolyák, P.H. Regan, M. Górska, H. Grawe, K.H. Maier, J. Gerl, S.B. Pietri, H.-J. Wollersheim, N. Alkhomashi, **A.Y. Deo**, A.M. Denis Bacelar, G. Farrelly, S.J. Steer, A.M. Bruce, P. Boutachkov, C. Domingo-Pardo, A. Algora, J. Benlliure, A. Bracco, E. Calore, E. Casarejos, I.J. Cullen, P. Detistov, Zs. Dombrádi, M. Doncel, F. Farinon, W. Gelletly, H. Geissel, N. Goel, J. Grebosz, R. Hoischen, I. Kojouharov, N. Kurz, S. Lalkovski, S. Leoni, F. Molina, D. Montanari, A.I.

Morales, A. Musumarra, D.R. Napoli, R. Nicolini, C. Nociforo, A. Prochazka, W. Prokopowicz, B. Rubio, D. Rudolph, H. Schaffner, P. Strmen, I. Szarka, T. Swan, J.S. Thomas, J.J. Valiente-Dobón, S. Verma, P.M. Walker, and H. Weick
Phys. Rev. C **80**, 061302(R) (2009) (**Impact Factor: 03.477**).

14. *Experimental study of nuclei in the vicinity of the “island of inversion” through the fusion-evaporation reaction.*

R. Chakrabarti, S. Mukhopadhyay, Krishichayan, A. Chakraborty, A. Ghosh, S. Ray, S.S. Ghugre, A.K. Sinha, L. Chaturvedi, **A.Y. Deo**, I. Mazumdar, P.K. Joshi, R. Palit, Z. Naik, S. Kumar, N. Madhavan, R.P. Singh, S. Muralithar, B.K. Yogi, and U. Garg
Phys. Rev. C **80**, 034326(2009).

15. *Isomeric states in ^{208}Hg and ^{209}Tl populated in fragmentation of ^{238}U .*

N. Al-Dahan, Zs. Podolyák, P.H. Regan, S.J. Steer, A.M.D. Bacelar, N. Alkhomashi, M. Górska, J. Gerl, H.-J. Wollersheim, S.B. Pietri, H. Grawe, **A.Y. Deo**, G. Farrelly, P. Boutachkov, C. Domingo-Pardo, A. Algora, J. Benlliure, A. Bracco, A.M. Bruce, E. Calore, E. Casarejos, I.J. Cullen, P. Detistov, Z. Dombradi, M. Doncel, F. Farinon, H. Geissel, W. Gelletly, N. Goel, J. Grebosz, R. Hoischen, I. Kojouharov, N. Kurz, S. Lalkovski, S. Leoni, F. Molina, D. Montanari, A.I. Morales, A. Musumarra, D.R. Napoli, R. Nicolini, C. Nociforo, A. Prochazka, W. Prokopowicz, B. Rubio, D. Rudolph, H. Schaffner, P. Strmen, I. Szarka, T. Swan, J.J. Valiente-Dobón, S. Verma, P.M. Walker, and H. Weick,
Acta Physica Polonica B **B40**, 871(2009).

16. *Angular Momentum population in fragmentation reactions.*

A.M.D. Bacelar, A.M. Bruce, Zs. Podolyák, S. Lalkovski, S. Pietri, N. Al-Dahan, M. Górska, A. Algora, N. Alkhomashi, J. Benlliure, P. Boutachkov, A. Bracco, E. Calore, E. Casarejos, I.J. Cullen, **A.Y. Deo**, P. Detistov, Z. 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 B **B40**, 889(2009).

17. *Structure of dipole bands in ^{106}In .*

A.Y. Deo, R. Palit, Z. Naik, S. Sihotra, S. Kumar, P.K. Joshi, I. Mazumdar, R. Chakrabarti, R. Kshetri, D. Mehta, and H.C. Jain,
Phys. Rev. C **79**, 067304 (2009) (4 pages) (**Impact Factor: 03.477**).

18. *Multiple band structures of ^{131}Cs .*
S. Sihotra, R. Palit, Z. Naik, K. Singh, P. K. Joshi, **A.Y. Deo**, J. Goswamy, S. S. Malik, D. Mehta, C. R. Praharaaj, H. C. Jain, and N. Singh,
Phys. Rev. **C78**, 034313(2008).
19. *High spin structure of ^{139}Nd .*
S. Kumar, R. Palit, H.C. Jain, I. Mazumdar, P.K. Joshi, S. Roy, **A.Y. Deo**, Z. Naik, S.S. Malik, and A.K. Jain,
Phys. Rev. **C76**, 014306 (2007).
20. *Systematics of the shears mechanism in silver isotopes.*
A.Y. Deo, S.B. Patel, S.K. Tandel, S. Muralithar, R.P. Singh, R. Kumar, R.K. Bhowmik, S.S. Ghugre, A.K. Singh, V. Kumar, and Amita,
Phys. Rev. **C73**, 034313 (2006) (9 pages) (**Impact Factor: 03.477**).
21. *Lifetime measurements in ^{112}Sb .*
A.Y. Deo, S.K. Tandel, S.B. Patel, P.V. Madhusudhana Rao, S. Muralithar, R.P. Singh, R. Kumar, R.K. Bhowmik, and Amita,
Phys. Rev.**C71**, 017303 (2005) (4 pages) (**Impact Factor: 03.477**).

[B] In symposia/conferences

- (1) *High spin study of ^{42}Sc .*
A.Y. Deo, S.K. Tandel, S.B. Patel *et. al*, DAE-BRNS symposium on Nuclear Physics, Kolkata, India, **44B** (2001) 130.
- (2) *Shape evolution in ^{85}Zr .*
S.K. Tandel, S.K. Kore, S.B. Patel, **A. Y. Deo** *et. al*, DAE-BRNS Symposium on Nuclear Physics, Kolkata, India, **44B** (2001) 58.
- (3) *Investigation of the shears mechanism in ^{112}Sb .*
A. Y. Deo, S.K. Tandel, S.B. Patel *et. al*, DAE-BRNS Symposium on Nuclear Physics, Mumbai, India, **46B** (2003) 150.
- (4) *Transition strengths in highly deformed band in ^{113}Sb .*
A.Y. Deo, S.K. Tandel, S.B. Patel *et. al*, DAE-BRNS Symposium on Nuclear Physics, Varanasi, India, **47B** (2004) 136.
- (5) *High spin states in ^{123}Ba .*
A.Y. Deo, S.B. Patel, A.K. Singh, H. Hübel, A. Bracco *et. al*, DAE-BRNS Symposium on Nuclear Physics, Varanasi, India, **47B** (2004) 134.
- (6) *Shears mechanism in silver isotopes.*
A.Y. Deo, S.K. Tandel, S.B. Patel *et. al*, DAE-BRNS Symposium on Nuclear Physics, Mumbai, India, **50** (2005) 250.

- (7) *Lifetime measurements in Cr and V isotopes using Centroid Shift Method and DSAM.* S. Mukhopadhyay, Krishichayan, S. Ray, A. Chakraborty, S. S. Ghugre, U. Garg, **A.Y. Deo et. al**, DAE-BRNS Symposium on Nuclear Physics, Mumbai, India, **50** (2005) 238.
- (8) *High spin states in ^{106}In .*
A. Y. Deo, R. Palit, S. Sihotra, Z. Naik, S. Kumar *et. al*, DAE- BRNS Symposium on Nuclear Physics, Sambalpur, India, **52** (2007) 193.
- (9) *Microscopic explanation of observed band structures of ^{131}Cs .*
Z. Naik, R. Palit, S. Sihotra, **A. Y. Deo**, D. Mehta, and C. R. Praharaaj, DAE- BRNS Symposium on Nuclear Physics, Sambalpur, India, **52** (2007) 199.
- (10) *Gamma-ray spectroscopy of neutron-rich $^{33,34}\text{P}$ nuclei following $^{18}\text{O}+^{18}\text{O}$ fusion reaction at 34 MeV.*
R. Chakrabarti, S. Mukhopadhyay, Krishichayan, A. Chakraborty, A. Ghosh, S. Ray, S. S. Ghugre, A. K. Sinha, L. Chaturvedi, **A. Deo et. al**, DAE- BRNS Symposium on Nuclear Physics, Sambalpur, India, **52** (2007) 195.
- (11) *The structure of ^{136}Ba using HI reaction.*
Suresh Kumar, A. K. Jain, Alpana Goel, S. S. Malik, R. Palit, H. C. Jain, I. Mazumdar, P.K. Joshi, **A. Y. Deo**, Z. Naik *et. al*, DAE- BRNS Symposium on Nuclear Physics, Sambalpur, India, **52** (2007) 292.
- (12) *Structures of Dipole bands of ^{107}In .*
S. Sihotra, Z. Naik, R. Palit, A. Y. Deo, S. Kumar, P. K. Joshi, D. Meheta and N. Singh, DAE- BRNS Symposium on Nuclear Physics, IIT Rorkee, India, (2008) 235.
- (13) *Study of intruder configurations in the neutron-rich $N\approx 20$ nuclei.*
R. Chakrabarti, S. Mukhopadhyay, Krishichayan, A. Chakraborty, A. Ghosh, S. Ray, S. S. Ghugre, A.K. Sinha, L. Chaturvedi, **A. Y. Deo et. al**, DAE-BRNS Symposium on Nuclear Physics, IIT Rorkee, India, (2008) 317.
- (14) *Investigation of positive parity degenerated dipole bands in ^{133}Ce .*
R. Palit, V. V. Parkar, Z. Naik, H. C. Jain, P. K. Joshi, I. Mazumdar, **A. Y. Deo**, S. Sihotra, S. Kumar *et. al*, DAE- BRNS Symposium on Nuclear Physics, IIT Rorkee, India, (2008) 323.
- (15) *Spectroscopy of ^{37}Ar , ^{36}Cl and the role of pf orbitals.*
Sudatta Ray, I. Ray, Ritesh Kshetri, R. Raut, S. Ganguly, M. K. Pradhan, D. Kanjilal, **A. Y. Deo**, S. Kumar *et. al*, DAE- BRNS Symposium on Nuclear Physics, IIT Rorkee, India, (2008) 353.
- (16)** Spectroscopy of Indium isotopes: understanding evolution of shears mechanism.
A.Y. Deo, R. Palit, Z. Naik, S. Sihotra, S. Kumar, P. K. Joshi, I. Mazumdar, R. Chakrabarti, R. Kshetri, Presented at 50th Anniversary Symposium on Nuclear Sizes and Shapes, University of Surrey, Guildford, United Kingdom, June 23-25, 2008.
- (17)** *Structure of $N\geq 126$ nuclei produced in fragmentation of ^{238}U .*
N. Al-Dahan, Zs. Podolyak, P.H. Regan, S.J. Steer, A.M. Denis Bacelar, N. Alkhomashi,

M. Górska, J. Gerl, H.J. Wollershein, S.B. Pietri, H. Grawe, **A.Y. Deo**, G. Farrelly, *et al.*, AIP Conference Proceedings **1090**, 145(2008)

(18) *Performance of the X-ARRAY at ANL.*

A.Y. Deo, C.J. Lister, P. Chowdhury, F.G. Kondev, P.F Bertone, K. Teh, S. Lakshmi, G.J. Lane, E. McCuthan, C. Nair, D. Sewerynaik, M.L. Smith, S. Zhu; APS-DNP2011 Meeting at Michigan State University, East Lansing, Michigan; October 2011.