

RESUME

PERSONAL DETAILS

Name : N. Boomadevi
Father's Name : S. Nallakannu
Husband's Name : S. Sathish Sankar
Age : 34 years
Date of Birth : 21.07.1987
Gender : Female
Marital Status : Married
Citizenship : Indian
Religion : Hindu
Community : BC
Languages known : Tamil and English
Address for communications
/ Residential : 15, Selvi Nagar
Tirunelveli Junction - 627001
Mobile No. : 09489291323, 9384199432
E-mail : nbdevisankar@gmail.com



ACADEMIC PROFILE

<i>Name of the course</i>	<i>Name of the University/ Institution</i>	<i>Year of Passing</i>	<i>Percentage of Marks</i>
SSLC	Victoria Girls' Hr. Sec. School Tuticorin – 628 002	2002	91.20
HSC	Victoria Girls' Hr. Sec. School Tuticorin – 628 002	2004	82.83
B.Sc	A. P. C. Mahalakshmi college for women Tuticorin – 628008	2007	86.21
M.Sc	Sarah Tucker college (Autonomous) Tirunelveli -	2009	84.45
M.Phil	Manonmaniam Sundaranar University Tirunelveli – 627 012	2010	82.60
Ph.D	Manonmaniam Sundaranar University Tirunelveli – 627 012	2015	---

RESEARCH EXPERIENCE

Junior research fellow in UGC project from August 2010 to October 2012

TITLE OF THE PROJECTS

M.Phil. Project : **A study of nuclear shape transitions in Samarium isotopes”**

Ph.D. Project : **“Investigations on shape-phase transitions and shape evolution in rapidly rotating nuclei”**

TEACHING EXPERIENCES

- Handling B.Sc. and M.Sc. classes for two years at Sri Sarada College for Women, Tirunelveli (from 18.06.2014 to 27.08.2016).
- Handling B.Sc. and M.Sc. classes at Sri Paramakalyani College, Alwarkurichi (under FDP scheme (Guest lecturer) from 29.08.2016 to 30.06.2017).
- Handling B.Sc. and M.Sc. classes at Sri Paramakalyani College, Alwarkurichi (under FDP scheme (regular UGC pay) from 03.07.2017 to 24.04.2018).
- Handling B.Sc. class at Vyasa Arts and Science Women's College, Subramaniapuram (from 01.06.2018 to 31.08.2021).
- Handling B.Sc. and M.Sc. classes at Sri Sarada College for Women, Tirunelveli (from 01.09.2021 to till date).

AREA OF INTEREST

- Nuclear Physics
- Mathematical Physics

PROFESSIONAL ACTIVITIES

- Centre in-charge for National Graduate Physics Examination (NGPE) - 2017 organized by Indian Association of Physics Teachers at Sri Paramakalyani College
- Internal advisory committee member in "International training workshop on increasing the scholarly impact and research output", Sri Sarada College for women, Tirunelveli.

- Organizing committee member in "State level workshop on SPSS and its practical applications in research and development", Sri Sarada College for women, Tirunelveli.
- Coordinator, Sarada academy for Civil Services coaching for III years, Sri Sarada College for Women, Tirunelveli.
- Criterion III coordinator in NAAC self study report, Sri Sarada College for women, Tirunelveli

PUBLICATIONS IN INTERNATIONAL JOURNALS

1. Rotational behavior of triaxially deformed even-even tellurium isotopes
A. Muhila Suba Janani, K.M. Muhammed Rafic, **N. Boomadevi**, T.R. Rajasekaran
Acta Physica Polonica B 51 (2020) 1757.
2. Rotational behavior of thermally excited ^{56}Fe , ^{58}Fe and ^{60}Fe isotopes
A. Muhila Suba Janani, **N. Boomadevi**, T.R. Rajasekaran
International Journal of Modern Physics E 28 (2019) 1950088.
Impact factor: 1.386
3. Investigation on shape transition in Se isotopes
K.M. Muhammad Rafic, A. Muhila Suba Janani, **N. Boomadevi**, T.R. Rajasekaran
Journal of Applied Science and Computation 5 (2018) 1707.
ISSN NO. 1076-5131. **Impact factor: 5.8**
4. Temperature dependent shape transition in Gd isotopes
K.M. Muhammad Rafic, A. Muhila Suba Janani, **N. Boomadevi**, T.R. Rajasekaran
International Journal of Research and Analytical Reviews 5 (2018) 25.
ISSN NO. 2349-5138 **Impact factor: 5.75**
5. A study on the Growth and Characterization of a semi-organic non-linear optical Glycine Sodium Chloride single crystal
K. Jebastin Ganaraj, M. Karthick, P. Ranjith kumar, M. Shanmuga Raja and **N. Boomadevi**
International organization of scientific research - Journal of applied Physics 3 (2017) 5 - 8.
e-ISSN No. 2278-4861 **Impact factor: 3.15**
6. Particle entropy and repairing in hot nuclei
J. Dhivya Saranya, **N. Boomadevi** and T. R. Rajasekaran
International Journal of Modern Physics E 25 (2016) 1650093.
ISSN No. 02183013 **Impact factor: 1.386**
7. Nuclear specific heat and phase transitions in finite nuclear systems
N. Boomadevi, J. Dhivya Saranya, S. Selvaraj and T. R. Rajasekaran,
Acta Physica Polonica B 45 (2014) 989 - 1013.

8. A microscopic study on shape transition and shape coexistence in superdeformed nuclei

G. Kanthimathi, **N. Boomadevi** and T.R. Rajasekaran
Physics of Atomic Nuclei 75 (2012) 949 – 957.

ISSN No. 10637788

Impact factor: 0.458

9. Influence of quantal and statistical fluctuations on phase transitions in finite nuclei

G. Kanthimathi, **N. Boomadevi** and T.R. Rajasekaran
Communications in Theoretical Physics 56 (2011) 718–726.

ISSN No. 02536102

Impact factor: 1.066

CONTRIBUTIONS TO NATINAL/INTERNATIONAL SYMPOSIA / CONFERENCES

1. Shape transitions on Samarium isotopes at low temperature

N. Boomadevi and T. R. Rajasekaran

National conference on advanced Physics - 17th February 2017, page 3, Sri Sarada college for women, Tirunelveli, Tamilnadu, India.

2. Thermal particle entropy and pairing phase transition in $^{73,74}\text{Ge}$

J. Dhivya Saranya, A. Mugilan Suba Janani, T. R. Rajasekaran and **N. Boomadevi**

Proceedings of the national conference on recent trends in nuclear Physics - February 15-16, 2016, Aligarh Muslim University, Aligarh, Uttar Pradesh, India

3. Best practices for teaching and learning

N. Boomadevi, S. Vimala and R. Amudhavalli

NAAC sponsored national conference on State of the art methodology to enhance teaching, learning and evaluation process – 2015, Sri Sarada college for women, Tirunelveli, Tamilnadu, India.

ISBN No.: 9788192604053

4. Faculty development program models to advance teaching and learning

N. Boomadevi, S. Vimala and R. Amudhavalli

NAAC sponsored national conference on State of the art methodology to enhance teaching, learning and evaluation process – 2015, Sri Sarada college for women, Tirunelveli, Tamilnadu, India.

ISBN No.: 9788192604053

5. A microscopic study on nuclear level density and spin cut-off parameter

N. Boomadevi, J. Dhivya Saranya, S. Selvaraj and T. R. Rajasekaran

Conference proceedings on International training workshop on increasing the scholarly impact & research output – IQAC 2015, P 522, Sri Sarada college for women, Tirunelveli, Tamilnadu, India.

6. Nuclear level density and spin cut off parameter
N. Boomadevi, J. Dhivya Saranya, S. Selvaraj and T. R. Rajasekaran
UGC sponsored national conference on recent trends and advances in Physics
NCRTAP – 2015 CP-1, p21, The M.D.T. Hindu College, Tirunelveli, Tamilnadu,
India.
7. Influence of thermodynamic pairing on entropy and heat capacity of ^{94}Mo
J. Dhivya Saranya, S. Prasana Kumari, **N. Boomadevi**, S. Selvaraj and
T. R. Rajasekaran
Proceedings of the DAE Symp. on Nucl. Phys. 59 (2014) 218, Banaras Hindu
University, Varanasi, Uttar Pradesh, India
<http://sympnp.org/snp2014>
8. Superdeformation and shape coexistence in ^{136}Pm
N. Boomadevi, J. Dhivya Saranya and T. R. Rajasekaran
Proceedings of the DAE Symp. on Nucl. Phys. 58 (2013) 82, Bhabha Atomic
Research centre, Mumbai, India
<http://sympnp.org/snp2013> **ISBN No.: 8183720706**
9. Shape transitions in the hot rotating nucleus ^{148}Nd
J. Dhivya Saranya, **N. Boomadevi** and T. R. Rajasekaran
Proceedings of the DAE Symp. on Nucl. Phys. 58 (2013) 94, Bhabha Atomic
Research centre, Mumbai, India
<http://sympnp.org/snp2013> **ISBN No.: 8183720706**
10. Microscopic studies on level density and spin cut off factor
N. Boomadevi, G. Kanthimathi and T. R. Rajasekaran
Proceedings of the DAE Symp. on Nucl. Phys. 56 (2011) 428, Andhra University,
Visakhapatnam, Andhra Pradesh, India
<http://sympnp.org/snp2011>
11. Shape transitions in Samarium isotopes
N. Boomadevi and T. R. Rajasekaran
National Seminar on Advances in Physics NSAP-2011, OP 05, p17, Manonmanium
Sundaranar University, Tirunelveli, Tamilnadu, India.
12. Investigation on nuclear level density and spin cut off parameter
N. Boomadevi and T. R. Rajasekaran
National Seminar on Advances in Physics NSAP-2011, PP 14, p50, Manonmanium
Sundaranar University, Tirunelveli, Tamilnadu, India.
13. Investigation on level density parameter and nuclear separation energies of
Samarium isotopes using statistical theory

N. Boomadevi and T.R. Rajasekaran
Symposium on XI - Tamilnadu Science Congress (2011) 3, The Gandhigram Rural
Institute - Deemed University, Gandhigram, Dindigul District, Tamilnadu, India

ISBN No.: 817735986-X

14. Study on nuclear level density and spin cut-off parameter

N. Boomadevi and T.R. Rajasekaran

Symposium on XI - Tamilnadu Science Congress (2011) 4, The Gandhigram Rural
Institute - Deemed University, Gandhigram, Dindigul District, Tamilnadu, India

ISBN No.: 817735986-X

15. Systematic study on shape evolutions in superdeformed nuclei

G. Kanthimathi, **N. Boomadevi** and T. R. Rajasekaran

Proceedings of the DAE Symp. on Nucl. Phys. 55 (2010) 140, Viral Institute of
Technology and Science, Palani, Rajasthan, India.

<http://sympnp.org/snp2010>

16. Study on phase and shape transitions in rapidly rotating Dysprosium nuclei

N. Boomadevi and T.R. Rajasekaran

Symposium on Tamilnadu Science Congress (2010) 120, Manonmanium
Sundaranar University, Tirunelveli, Venue: Kanyakumari, Tamilnadu, India

17. Investigation on phase and shape transitions in fast rotating nuclei

N. Boomadevi and T.R. Rajasekaran

Symposium on XI - Tamilnadu Science Congress (2010) 100, Manonmanium
Sundaranar University, Tirunelveli, Tamilnadu, India

ISBN No.: 9380627173

DECLARATION

I affirm that the above information given in this resume is true and correct to the
best of my knowledge and belief.

Place: Tirunelveli - 627001

Yours faithfully,

Date:

(N. BOOMADEVI)