

Dr LAKSHMI PARAMESWAR (HOD)

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POST HELD

Associate Professor & HOD

TEACHING EXPERIENCE

UG Level : 22 Years

PG Level : 22 Years

ACADEMIC QUALIFICATIONS

PhD in Physics (Theoretical Physics)

Mahatma Gandhi University, Kottayam

MPhil in Physics

CUSAT, Kochi

MSc Physics

Mahatma Gandhi University, Kottayam

AREA OF RESEARCH

Theoretical Physics

Nonlinear Dynamics

Solitons

TOPIC OF RESEARCH

Studies in Integrability of Nonlinear Dynamical Systems

POSITIONS HELD

NSS Programme Officer (2006-2009)

Covener, Carrer Guidance Cell (2008-2009)

Committee member PTA (2016-17)

Joint Secretary Vanitha Vedi (2012-13)

Vice President, Vanitha Cell (2016 onwards)

RESEARCH PUBLICATIONS

- **Lakshmi Parameswar**, K.S. Sreelatha and K.Babu Joseph “Coupled beam propagation through Photorefractive Media, *International Journal of Nonlinear Optical Physics and Applications (JNOPM)* 20 99 (2011) (World Scientific, Singapore)
- **Lakshmi Parameswar**, K.S. Sreelatha and K.Babu Joseph, “Two-Beam Coupling Using Solitons in Photorefractive Media” *Frontiers in Optics* (2010), (Rochester, New York, USA)
- K.S.Sreelatha, **Lakshmi Parameswar** and K.Babu Joseph “Optical Computing using solitons” *Journal of American Institute of Physics (AIP)* (2008), (pp-294)

- **Lakshmi Parameswar**, K.S. Sreelatha and K.Babu Joseph “Integrability studies on higher order nonlinear Schrödinger equations”, “*Viswajyothis*” Vol 1 2013 (pp-278)
- K.S.Sreelatha, **Lakshmi Parameswar** and K.Babu Joseph “Nonlinear wave propagation through Photorefractive Media”, “*Nonlinear Dynamics*” ed by M.Daniel and S. Rajasekhar, Narosa Publishing House, New Delhi (2009)- (pp-148)
- **Lakshmi Parameswar**, K.S.Sreelatha and K.Babu Joseph “Some new soliton solutions” Proceedings of the 16th Swadeshi science Congress (2006)- (pp-5)

PAPERS PRESENTED

- “Nonlinear Wave Propagation through Photorefractive Media” at the International Conference on Recent Developments in Nonlinear Dynamics (RDND), Bharatidasan University, Tiruchirappally (2009)
- “Optical Computing using solitons” at the National Conference on Thermophysical Materials and Devices (NCTP) 2007, held at Amrita Viswavidyapeetam, Amritapuri Campus, Kollam, Kerala
- “Some new soliton solutions” at the 16th Swadeshi Science Congress (November 2006) held at D.B.Pampa College, Parumala, Kerala

RESOURCE PERSON

- UGC sponsored National Seminar on “Material Science and Special Emphasis on Crystallography” Department of Physics, Govt College, Kottatyam (9-11 September 2015)

CONFERENCES AND SEMINARS ATTENDED

- “Mini School in Theoretical Physics”, Department of Physics, Government College, Kottayam (13- 17 January, 2004)
- “National Seminar on Quantum Field Theory” organized by Indian Academy of Science Banglore and Marthoma College, Thiruvalla (8-11 November, 2004)
- “All India Refresher Course in Theoretical Physics” organized by Indian Academy of Science, Banglore and SB College Changanassery (19 – 30 September, 2005)
- National Workshop on “Recent Advances in Laser Technology” organized by Department of Physics, Bishop Moore College, Mavelikara(23-24 November, 2006)
- National Conference on “New Horizons in Theoretical and Experimental Physics” organized by Department of Physics, CUSAT (8-10 October, 2007)

- UGC sponsored “National Conference on Spectroscopy” organized by Department of Physics, Marthoma College, Thiruvalla (15-16 March, 2007)
- 20th Kerala Science Congress Thiruvanthapuram (28- 31 January 2008)
- “All India Refresher Course in Theoretical Physics” organized by Indian Academy of Science, Indian National Science Academy, New Delhi, National Academy of Sciences Allahabad and Bishop Moore College, Mavelikara” (December 7-19,2009)
- National Workshop on “Computational methods in Nonlinear Dynamics”, organized by Centre for Nonlinear Dynamics, Bharatidasan University, Tiruchirappally (22-25 September, 2010)
- “National Seminar on Statistical Physics” organised by Government College Kottayam (22 August 2014)
- “National Seminar on Nonlinear Optics, Group Theory and Statistical Mechanics” organized by Department of Physics, DB Pampa College, Parumala (28-30 April, 2014)
- “International Seminar on Ultrafast Lasers” organized by PG Department of Physics, D B Pampa College, Parumala (18 September, 2015)
- Lecture Workshop on” Basics of Quantum Mechanics and Field Theory” organized by Indian Academy of Science, Indian National Science Academy, New Delhi, National Academy of Sciences Allahabad and Bishop Moore College, Mavelikara (29 Nov -1 December 2016)
- National seminar on “Recent Trends in Alternative Energy-2017” organized by Department of Physics ,Govt College, Kottayam (5-6 October 2017)