

## Faculty Bio

### Dr. M DHAVAMURTHY

Temporary Faculty, Department of Physics, NITT

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D.O.B: 10/09/1987- Hindu – Single – Indian



#### SUMMARY

- Hands-on experience at the graduation and post-graduation level education facility
- Familiarity working at a College and University department
- Strong organizational skills and proficient with MS office tools
- Remarkable ability to teach, inspire and develop young researcher

#### EDUCATION

2016	<b>Ph.D. PHYSICS</b> Presidency College (Autonomous) – Chennai, Tamil Nadu, India University of Madras.
2011	<b>M.Phil. PHYSICS</b> Presidency College (Autonomous) – Chennai, Tamil Nadu, India University of Madras
2010	<b>M.Sc. PHYSICS</b> Presidency College (Autonomous) – Chennai, Tamil Nadu, India University of Madras
2008	<b>B.Ed. PHYSICAL SCIENCE</b> Institute of Advanced Study in Education – Chennai, Tamil Nadu, India
2004	<b>B.Sc. PHYSICS</b> Rajah Serfoji Govt. College (Autonomous) – Thanjavur, Tamil Nadu, India Bharathidasan University

#### NET / SET QUALIFICATION

2016	TAMIL NADU –STATE ELIGIBILITY TEST (TN-SET) FOR LECTURESHIP Subject: <b>PHYSICAL SCIENCE</b>
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#### TEACHING EXPERIENCES

08/2018 to till date	Assistant Professor (Temporary), Department of Physics <b>National Institute of Technology, Tiruchirappalli, TN</b>
07/2017 to 05/2018	Assistant Professor (on Contract), Department of Physics <b>Central University of Tamil Nadu, Thiruvarur, TN</b>
09/2015 to 07/2017	Assistant Professor of Physics <b>The New College (Autonomous), Chennai, TN</b>

## SUBJECT SPECIALIZATION

Electromagnetic theory, Solid State Physics and Spectroscopy

## RESEARCH FIELD

M.Phil.

### **Nuclear Physics**

Charged current neutrino-nucleon interaction total cross-section

Ph.D.

### **Experimental Solid state Physics – Crystal Growth**

Growth, Structure and Characterization of Non- Linear Optical Crystals of Guanidinium Salt with a few organic anions

## ONGOING WORK

Synthesis and Characterization of organometallic crystals.

Multiferroic composites material

## PUBLICATIONS

(Total no. publications: 09)

**M. Dhavamurthy**, G. Peramaiyan and R. Mohan "Synthesis, growth, structural, optical, thermal, dielectric and mechanical studies of an organic guanidinium p-nitrophenolate crystal" Journal of Crystal Growth 399 (2014) 13–18.

**M. Dhavamurthy**, G. Peramaiyan, K. Syed Suresh Babu and R. Mohan "Crystal growth, morphology, thermal and spectral studies of an organosulfur nonlinear optical bis(guanidinium) 5-sulfosalicylate (BG5SS) single crystals" Applied Physics A (2015).

**M. Dhavamurthy**, G. Peramaiyan, M. NizamMohideen and R. Mohan "Synthesis, growth and characterization studies of p-hydroxybenzoic acid addition with the guanidinium carbonate single crystals" Journal of Molecular and Engineering Materials 2 (2014) 1450006 (9 pages).

**M. Dhavamurthy**, G. Peramaiyan, M. NizamMohideen, S. Kalainathan and R. Mohan, Structural, growth and optical characterizations of an organic third-order nonlinear crystal: Guanidinium trichloroacetate", Journal of Nonlinear Optical Physics & Materials. 24, No. 4 (2015) 1550045 (14 pages).

**M. Dhavamurthy**, R. Raja, K. Syed Suresh Babu, R. Mohan, Crystal structure, growth and characterizations of a novel organic third-order nonlinear optical crystal: guanidinium cinnamate. Journal of Applied Physics A, 122 (2016)734

## AWARDS

- Rajiv Gandhi National Fellowship from the UGC New Delhi (2010 - 2011)
- Distinction with outstanding in M.Sc. Physics (2008 - 2010)
- Awarded a First prize for proficiency in PHYSICS, B.Sc. Physics (2004 - 2005)

I hereby declare that the above mentioned details are true to the best of my knowledge.

Yours faithfully  
(*M. Dhavamurthy*)