

Ongoing Projects

S. No.	Principal Investigator	Project Title	Period		Funding Agency	Amount ₹ (in lakhs)
			From	To		
1.	Dr. M. Senthilvelan	Nonstandard Bilinearization and PT-invariant Localized Solution of Certain PT-invariant Nonlocal Nonlinear Schrödinger Equation	2018	2021	NBHM	13.73
2.	Prof. M. Lakshmanan	DST-SERB Distinguished Fellowship Project	2018	2023	DST	125
3.	Dr. M. Senthilvelan	Exploring the dynamics, control mechanisms and novel structures in certain PT symmetric systems	2017	2020	DST-SERB	18.85
4.	Dr. M. Senthilvelan	Collective Dynamical states of coupled Nonlinear Oscillators	2017	2020	CSIR	7.51 (2 years Grant)
5.	Prof. M. Lakshmanan	Collective Dynamical Structures in Coupled Nonlinear Oscillators	2016	2019	DST	29
6.	Prof. M. Lakshmanan	Nonlinear Dynamics of Spin Transfer Nano Oscillators (STNOs)	2015	2019	CSIR	15
7.	Prof. M. Lakshmanan	Library Grant to the Centre for Nonlinear Dynamics	From the year 1990 onwards. Annual Grant		DAE (NBHM)	4.30 Per year

Projects Completed

S. No	Principal Investigator	Project Title	Period		Funding Agency	Amount ₹ (in lakhs)
			From	To		
1.	Prof. M. Lakshmanan	Moving curves and surfaces in potential fields: Geometrical connections to spin systems and soliton equations	2015	2018	DAE	12
2.	Prof. K. Thamilaran	Dynamics of memristor based coupled chaotic circuits	2013	2017	DST-SERB	32.04
3.	Dr. M. Senthilvelan	Multi-Rogue wave solutions of certain coupled nonlinear Schrödinger equations.	2013	2016	NBHM	9.67
4.	Dr. M. Senthilvelan	Classical and quantum dynamics of certain PT symmetric (reversible) Lienard type nonlinear oscillator	2013	2016	DST-SERB	19.35
5.	Prof. K. Thamilaran	Experimental Studies on the Dynamical of Coupled Nonlinear Electronic Oscillators	2011	2014	DST-SERB	7.6
6.	Prof. M. Lakshmanan	DST Ramanna Fellowship project	2011	2014	DST	33
7.	Dr. M. Senthilvelan	On the dynamics of certain two component Generalization of Camassa - Holm and Degasperis – Processi equations	2010	2013	UGC	8.29
8.	Dr. M. Senthilvelan	Applied Nonlinear Physics: Indo-Brazil Joint Research Project	2009	2012	DST	12.22
9.	Prof. M. Lakshmanan	Establishment of a Nonlinear Dynamics Unit – Phase III	2008	2015	DST	284.00
10.	Dr. M. Senthilvelan	On the invariance, linearization and integrability of certain nonlinear dynamical systems	2008	2011	DST	10.39

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			From	To		
11.	Dr. M. Senthilvelan	A New approach to integrability of a class of nonlinear ordinary and partial differential equations	2007	2011	NBHM	6.32
12.	Prof. M. Lakshmanan	DST Ramanna Fellowship Grant	2007	2010	DST	40.2
13.	Prof. M. Lakshmanan	Spatio-temporal Patterns and Localized Structures in Nonlinear Schrodinger Family of Equations in (2+1) Dimensions	2004	2007	DAE	13.0
14.	Prof. M. Lakshmanan	Establishment of a Nonlinear Dynamics Unit – Phase II	2002	2007	DST	100.12
15.	Prof. M. Lakshmanan	Integrability and Nonintegrability of Nonlinear Differential Equations: Role of Symmetries and Singularity Structures	2001	2004	DAE	7.2
16.	Prof. M. Lakshmanan	Optical Soliton Interactions in Birefringent Fibers	2002	2005	CSIR	12.0
17.	Prof. M. Lakshmanan	Nonlinear Differential Equations of Diffusive Type: Spatio Temporal Patterns Bifurcation and Chaos	1998	2001	DAE	5.0
18.	Prof. M. Lakshmanan	Establishment of a Nonlinear Dynamics Unit	1995	2002	DST	83.0
19.	Prof. M. Lakshmanan	Symmetry, Singularity Structure and Bifurcation Aspects of Certain Nonlinear Differential Equations	1994	1997	DAE	2.0
20.	Prof. M. Lakshmanan	Nonlinear Dynamics of Magnetic Systems: Coherent and Chaotic Structures	1990	1995	DST	6.25
21.	Prof. M. Lakshmanan	Classical and Quantum chaos in Rydberg Atoms in External Field	1900	1994	CSIR	4.0