Contact Information	Chennai Mathematical Institute Plot No. H1, SIPCOT IT Park Siruseri, Kelambakkam Pin Code: 603103, Chennai, India.	Phone: (+91)-9567320446 E-mail: vishnu@cmi.ac.in vishnutr1992@gmail.com Website: www.cmi.ac.in/~vishnu
Research Interests	Theoretical and Mathematical Physics: Quantum field theory, Integrabil- ity in classical and quantum mechanical systems and field theories, Dynamical systems.	
Education	 Ph.D August 2016-present Chennai Mathematical Institute, Advisor: Prof. Govind S Krishnaswami. Masters August 2014-July 2016 Chennai Mathematical Institute, M.Sc. in Physics, Thesis Title: Integrability and inverse scattering transform for the KdV equation, Advisor: Prof. Govind S Krishnaswami. Masters July 2012-May 2014 University of Hyderabad, M.Sc. in Physics, Thesis Title: Study of Neutrino mass models, Advisor: Prof. Rukmani Mohanta. Undergraduate August 2009-July 2012 St. Joseph's College, Devagiri, B.Sc. Physics, Thesis Title: Spectroscopic studies of the twin quasar 0957+561 - The first gravitational lens (Group project), Advisor: Prof. S I Issac. 	
Papers	 Quantum Rajeev-Ranken model as an anharmonic oscillator, Govind S Krishnaswami and T R Vishnu, Preprint in preparation (2021). The idea of a Lax pair-Part II: Continuum wave equations, Govind S Krishnaswami and T R Vishnu, to appear in Resonance 26, 257 (2021). The idea of a Lax pair-Part I: Conserved quantities for a dynamical system, Govind S Krishnaswami and T R Vishnu, Resonance 25, 1705 (2020). An introduction to Lax pairs and the zero curvature representation, Govind S Krishnaswami and T R Vishnu, arXiv:2004.05791[nlin.SI]. Invariant tori, action-angle variables and phase space structure of the Rajeev-Ranken model, Govind S Krishnaswami and T R Vishnu, J. Math. Phys. 60, 082902 (2019), arXiv:1906.03141[nlin.SI]. On the Hamiltonian formulation, integrability and algebraic structures of the Rajeev-Ranken model, Govind S Krishnaswami and T R Vishnu, J. Phys. Commun. 3, 025005 (2019), arXiv:1804.02859 [hep-th]. 	
Research EXPERIENCE	• Two dimensional field theory, Partial d Inverse scattering, KdV equation, Laz tion, Integrability, Invariant tori and a	lifferential equations, Poisson-Lie algebras, x pairs, r -matrices, Hamiltonian formula- action-angle variables.
Conferences and Schools	 XXXIII SERB Main school-Theoretic 2019, S.G.T.B. Khalsa College, Univer Young Researchers Integrability School CFT, 10-16 February 2019, Erwin Sch matics and Physics, Vienna. Conference on Nonlinear Systems and lal Nehru University - New Delhi. Integrable systems in Mathematics, Co July-10 August, 2018, International Con- 	cal High Energy Physics, 7-26 December, rsity of Delhi. l and Workshop: A modern primer for 2D rödinger international Institute of Mathe- Dynamics, 11-14 October, 2018, Jawahar- ondensed Matter and Statistical Physics, 16 enter for Theoretical Sciences, Bangalore.
Talks and Posters	• Talk, <i>Dynamics and integrability of th</i> Meeting, December 15, 2020, Institute	he Rajeev-Ranken model, Chennai Strings e of Mathematical Sciences (Webinar).

	 Talk, Integrability of a mechanical reduction of a dual to the principal chiral model, National Symposium on Theoretical High Energy Physics, December 20, 2019, SGTB Khalsa College, University of Delhi. CMI Seminar, On the Hamiltonian formulation and integrability of the Rajeev-Ranken model, Chennai Mathematical Institute, March 20, 2019, Chennai. Poster presentation, Hamiltonian dynamics and integrability of the Rajeev-Ranken model, Conference on Nonlinear Systems and Dynamics, 11-14 October, 2018, Jawaharlal Nehru University, New Delhi. Poster presentation, Hamiltonian dynamics and integrability of the Rajeev-Ranken model, Integrable systems in Mathematics, Condensed matter and Statistical Physics, 16 July-10 August, 2018, International Center for Theoretical Sciences, Bangalore. 	
Teaching	 Teaching assistant for the course on Thermal Physics, Course Instructor: Govind S Krishnaswami, Aug-Nov 2019, Chennai Mathematical Institute. Teaching assistant for the Workshop of the Academy of Physics Teachers, Kerala, Topic: Scattering in Quantum Mechanics, Course Instructor: Govind S Krishnaswami, 23-24 June, 2018, Christ College, Irinjalakuda. Teaching assistant for the course on Continuum Mechanics, Course Instructor: Govind S Krishnaswami, Jan-Apr 2018, Chennai Mathematical Institute. 	
Internships	Institute of Physics May-June 2013 Students' summer visiting program (SSVP-2013)- A reading project on 'Neutrino oscillations' under the guidance of Prof. Pankaj Agarwal at IOP Bhubaneswar.	
Achievements	 2012 - Reached among top 25 in all Kerala Physics Talent Search, conducted by Academy of Physics Teachers, (APT) Kerala. 2014 - Qualified Joint Entrance Screening Test (JEST). 	
References	(1) Prof. Govind S. Krishnaswami Professor, Chennai Mathematical Institute govind@cmi.ac.in	
	(2) Prof. V. V. Sreedhar Professor, Chennai Mathematical Institute sreedhar@cmi.ac.in	
	(3) Prof. Ghanashyam Date Adjunct Professor, Chennai Mathematical Institute gdate@cmi.ac.in	