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Education

- 2006–2012 Ph.D., Physics, University of Maryland, College Park
Thesis advisor: Dr. Zackaria Chacko
Received August 2012
- 2001–2005 B.Tech., Engineering Physics, Indian Institute of Technology, Bombay
Received September 2005

Awards

- 2014 URA Visiting Scholar Award, Fermilab
2011 Ann G. Wylie Dissertation Fellowship, University of Maryland, College Park

Academic Positions

- 2015– Post-doctoral researcher, Harvard University
2012–2015 Post-doctoral researcher, Fermilab
2007–2012 Graduate Research Assistant, University of Maryland, College Park
2006–2007 Graduate Teaching Assistant, University of Maryland, College Park

Recent Invited Talks

New directions in Axions, “Johns Hopkins Workshop Series”, GGI, Florence, October 2018.

Factoring the strong CP problem, “Invisibles18 Workshop”, Karlsruhe Institute of Technology, September 2018.

Dark Matter Beyond, “Wine and Cheese Seminar”, Fermilab, June 2018.

QCD axions other than the QCD axion, “High Energy Physics at the Sensitivity Frontier”, KITP, UC Santa Barbara, May 2018.

Extending the QCD axion, “Towards Dark Matter Discovery”, KICP, University of Chicago, April 2018.

Theory Overview – Dark matter beyond, “Future of collider searches for DM”, Fermilab, July 2017.

Flavored Dark Matter, “DM@LHC 2017”, UC Irvine, April 2017.

Supersymmetry at FCC, “The First FCC Physics Workshop”, CERN, January 2017.

Recent Seminars

The strong CP problem and UV instantons

May 2018	Perimeter Institute
Feb 2018	Stony Brook University
Feb 2018	Princeton University
Jan 2018	Boston University
Jan 2018	Columbia University
Jan 2018	University of Michigan
Dec 2017	University of Texas, Austin

Darkly Charged Dark Matter

Nov 2016	CERN
Nov 2016	University of Maryland

The cosmological constant problem in scalar gravity

Feb 2018	Yale University
May 2017	Rutgers University
Apr 2017	Syracuse University
Mar 2017	Oregon University
Oct 2016	Northeastern University
Sep 2016	University of Massachusetts, Amherst
Sep 2016	Carleton University
Sep 2016	SLAC
Sep 2016	LBL, Berkeley
May 2016	Princeton University
Apr 2016	Boston University
Apr 2016	MIT
Feb 2016	Cornell University
Oct 2015	Stony Brook University
Oct 2015	Brown University
May 2014	Caltech

Dark matter: The Lepton connection

Jun 2014	Northwestern University
May 2014	Rutgers University
Mar 2014	University of Wisconsin, Madison
Mar 2014	University of California, Irvine
Mar 2014	SLAC

Teaching Experience

Fermilab Academic Lecture Series 2013

(g-2) in the QED and Beyond

University of Maryland, Teaching Assistant

- Phys624 *Quantum Field Theory*, Raman Sundrum, Spring 2012
- Phys603 *Statistical Mechanics*, Michael Fisher, Spring 2011
- Phys623 *Quantum Mechanics II*, O.W. Greenberg, Spring 2010
- Phys624 *Quantum Field Theory*, Kaustubh Agashe, Fall 2008, Fall 2010
- Phys622 *Quantum Mechanics I*, Paulo Bedaque, Fall 2009
- Phys271 *General Physics II*, Summer 2010
- Phys261 *General Physics I*, Spring 2008
- Phys122 *Introductory Physics II*, Spring 2009
- Phys121 *Introductory Physics I*, Fall 2006, Spring 2007, Fall 2007

Organizing and Service Work

Conferences organized

- 2016 *The many faces of Naturalness*, Aspen Center for Physics
- 2014 *Nature guiding theory*, Fermilab workshop

Reviewed grant proposals for the Fermi GI program 2017.

Refereed publications for:

Journal High Energy Physics (JHEP),
Journal of Cosmology and Astroparticle Physics (JCAP),
Monthly Notices of the Royal Astronomical Society (MNRAS),
European Physical Journal C (EPJC).