

Adith Ramamurti

PH.D. CANDIDATE, NUCLEAR THEORY GROUP
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EDUCATION

Stony Brook University

Stony Brook, NY

Ph.D. Candidate in Theoretical Nuclear Physics (GPA: 3.86/4)

Aug. 2013 - PRESENT

Dissertation topic: Non-perturbative aspects of QCD (with focus on monopoles and holography)

Advisor: Edward Shuryak

Brown University

Providence, RI

A.B. in Mathematical Physics and Music (History/Theory), *magna cum laude* (GPA: 3.82/4)

Sep. 2009 - May 2013

Senior/Honors thesis: Quantization of symmetric spaces

Advisor: Antal Jevicki

RESEARCH EXPERIENCE

Graduate Research Assistant

Stony Brook, NY

Nuclear Theory Group, Stony Brook University

Mar. 2014 - PRESENT

References:

Edward Shuryak, Distinguished Professor, Dept. of Physics and Astronomy, Stony Brook University, Stony Brook, NY 11794-3800
(631) 632-8127, edward.shuryak@stonybrook.edu

Derek Teaney, Associate Professor, Dept. of Physics and Astronomy, Stony Brook University, Stony Brook, NY 11794-3800
(631) 632-4489, derek.teaney@stonybrook.edu

Undergraduate Research Assistant

Providence, RI

High Energy Theory Group, Brown University

May 2011 - May 2013

Reference:

Antal Jevicki, Professor, Department of Physics, Brown University, 182 Hope Street, Providence, RI 02912
(401) 863-2624, antal_jevicki@brown.edu

Physical Science Aid

Washington, DC

Acoustics Division, U.S. Naval Research Laboratory

Jun. 2007 - Dec. 2009

Reference:

David C. Calvo, Research Scientist, Acoustics Division, Code 7165, Naval Research Laboratory, Washington, DC 20375
(202) 404-4800, david.calvo@nrl.navy.mil

PUBLICATIONS AND PREPRINTS

Chiral symmetry breaking and monopoles in gauge theories

Adith Ramamurti, Edward Shuryak

arXiv:1801.06922 [hep-ph]

22 Jan. 2018

Role of QCD monopoles in jet quenching

Adith Ramamurti, Edward Shuryak

Physical Review D **97**, 016010

arXiv:1708.04254 [hep-ph]

19 Jan. 2018

An effective model of QCD monopoles

Adith Ramamurti, Edward Shuryak

Nuclear Physics A **967**, 868-871

arXiv:1704.04467 [hep-ph]

25 Sep. 2017

Effective model of QCD magnetic monopoles from numerical study of one- and two-component Coulomb quantum Bose gases

Adith Ramamurti, Edward Shuryak

Physical Review D **95**, 076019

arXiv:1702.07723 [hep-ph]

24 Apr. 2017

Pomeron interactions from the Einstein-Hilbert action

Ioannis Iatrakis, **Adith Ramamurti**, Edward Shuryak

Physical Review D **94**, 045005

arXiv:1602.05014 [hep-ph]

5 Aug. 2016

Collective string interactions in AdS/QCD and high-multiplicity pA collisions

Ioannis Iatrakis, **Adith Ramamurti**, Edward Shuryak

Physical Review D **92**, 014011

arXiv:1503.04759 [hep-ph]

8 Jul. 2015

TALKS, CONFERENCES, AND WORKSHOPS

JETSCAPE Winter School and Workshop 2018

The Role of QCD Monopoles in Jet Quenching

Berkeley, CA

7 Jan. 2018

Stony Brook Nuclear Theory Seminar

The Role of QCD Monopoles in Jet Quenching

Stony Brook, NY

7 Nov. 2017

XXVIth International Conference on Ultrarelativistic Nucleus-Nucleus Collisions (Quark Matter 2017)

An Effective Model of QCD Monopoles

Chicago, IL

8 Feb. 2017

Gauge Field Topology Workshop at the Simons Center for Geometry and Physics

QCD strings and their interactions from the holographic perspective

Stony Brook, NY

21 Aug. 2015

SOFTWARE SKILLS

Programming Languages

- Expert: C++, Python, Unix shell (bash, tcsh), Mathematica, Parallelization (MPI, openMP)
- Intermediate: Fortran, Java, MATLAB

OTHER WORK EXPERIENCE

Teaching Assistant

Stony Brook University

Stony Brook, NY

Aug. 2014 - Dec. 2015

Courses taught: F2014, F2015: PHY113/115 (Physics of Sports); S2015: PHY112 (Physics of Light, Color, and Vision)

Reference:

Chang Kee Jung, Distinguished Professor, Dept. of Physics and Astronomy, Stony Brook University, Stony Brook, NY 11794-3800
631-632-8108, chang.jung@stonybrook.edu

Physics in Perspective

Assistant to the Editor

Stony Brook, NY

Sep. 2013 - May 2014

HONORS & AWARDS

Mildred G. Widgoff Prize for Excellence in Thesis Preparation

Brown University Physics Dept.

May 2013

Phi Beta Kappa Honor Society

Brown University

Mar. 2013