Adith **Ramamurti**

Ph.D. Candidate, Nuclear Theory Group
Dept. of Physics and Astronomy
Stony Brook University
Stony Brook, NY 11794-3800

(301) 793-5733 | adith.ramamurti@stonybrook.edu | www.ramamurti.com/adith
aramamurti | aramamurti | A.Ramamurti.1 | 0000-0003-4073-612X

Education

Stony Brook University — Stony Brook, NY

Ph.D. Candidate in Theoretical Nuclear Physics (GPA: 3.9/4) — 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

The 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 — Berkeley, CA
The Role of QCD Monopoles in Jet Quenching — 7 Jan. 2018

Stony Brook Nuclear Theory Lunch Seminar — Stony Brook, NY
The Role of QCD Monopoles in Jet Quenching — 7 Nov. 2017

XXVIth International Conference on Ultrarelativistic Nucleus-Nucleus Collisions (Quark Matter 2017) — Chicago, IL
An Effective Model of QCD Monopoles — 8 Feb. 2017

Gauge Field Topology Workshop at the Simons Center for Geometry and Physics — Stony Brook, NY
QCD strings and their interactions from the holographic perspective — 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, NY
Stony Brook University — 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 — Stony Brook, NY
Assistant to the Editor — Sep. 2013 - May 2014

Honors & Awards

Mildred G. Widgoff Prize for Excellence in Thesis Preparation — May 2013
Brown University Physics Dept.

Phi Beta Kappa Honor Society — Mar. 2013
Brown University