

Adith Ramamurti

Contact Information	Acoustics Division U.S. Naval Research Laboratory 4555 Overlook Ave. SW Washington, DC 20375	adith [at] ramamurti.com adith.ramamurti [at] nrl.navy.mil
Education	Ph.D., Physics (Nuclear Theory) Stony Brook University, Stony Brook, NY Advisor: Edward Shuryak Dissertation: Recent progress in understanding the role of monopoles in QCD	Aug. 2013 - Nov. 2018
	A.B., Mathematical Physics; A.B., Music Brown University, Providence, RI Advisor: Antal Jevicki Senior Thesis: Quantization of symmetric spaces	Sep. 2009 - May 2013
Employment	Research Physicist Acoustics Division, U.S. Naval Research Laboratory, Washington, DC	Nov. 2018 - PRESENT
Publications and Pre-prints	A. Ramamurti and E. Shuryak, <i>Extending the hydrodynamical description of heavy-ion collisions to the “outer edge” of the fireball</i> , arXiv:1811.03655 [hep-ph].	
	A. Ramamurti, E. Shuryak, and I. Zahed, <i>Are there monopoles in the quark-gluon plasma?</i> , Physical Review D 97 , 114028, arXiv:1802.10509 [hep-ph].	
	A. Ramamurti and E. Shuryak, <i>Chiral symmetry breaking and monopoles in gauge theories</i> , Physical Review D 100 , 016007, arXiv:1801.06922 [hep-ph].	
	A. Ramamurti and E. Shuryak, <i>Role of QCD monopoles in jet quenching</i> , Physical Review D 97 , 016010, arXiv:1708.04254 [hep-ph].	
	A. Ramamurti and E. Shuryak, <i>An effective model of QCD monopoles</i> , Nuclear Physics A 967 , 868-871, arXiv:1704.04467 [hep-ph].	
	A. Ramamurti and E. Shuryak, <i>Effective model of QCD magnetic monopoles from numerical study of one- and two-Component Coulomb quantum Bose gases</i> , Physical Review D 95 , 076019, arXiv:1702.07723 [hep-ph].	
	I. Iatrakis, A. Ramamurti and E. Shuryak, <i>Pomeron interactions from the Einstein-Hilbert action</i> , Physical Review D 94 , 045005, arXiv:1602.05014 [hep-ph].	
	I. Iatrakis, A. Ramamurti, and E. Shuryak, <i>Collective string interactions in AdS/QCD and high-multiplicity pA collisions</i> , Physical Review D 92 , 014011, arXiv:1503.04759 [hep-ph].	
Talks and Conferences	Gauge Topology III: From Lattice to Colliders European Center for Theoretical Physics, Trento, IT	May 2018

Recent progress in understanding the role of monopoles in QCD

JETSCAPE Winter School and Workshop
Lawrence Berkley National Lab, Berkeley, CA
The role of QCD monopoles in jet quenching Jan. 2018

Stony Brook Nuclear Theory Seminar
Stony Brook University, Stony Brook, NY
The role of QCD monopoles in jet quenching Nov. 2017

XXVIth International Conference on Ultrarelativistic
Nucleus-Nucleus Collisions (Quark Matter 2017)
Chicago, IL
An effective model of QCD monopoles Feb. 2017

Gauge Field Topology Workshop
Simons Center for Geometry and Physics, Stony Brook, NY
QCD strings and their interactions from the holographic perspective Aug. 2015

Skills

Programming Languages

- Expert: C++, Python, Unix shell (bash, tcsh), Mathematica, L^AT_EX
- Intermediate: Fortran, Java, MATLAB

Programming Techniques

- Expert: Parallelization (MPI, openMP), Monte Carlo methods
- Intermediate: Machine learning, neural networks

**Honors and
Awards**

magna cum laude
Brown University, Providence, RI May 2013

Mildred G. Widgoff Prize for Excellence in Thesis Preparation
Physics Department, Brown University, Providence, RI May 2013