

ADITH RAMAMURTI

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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
EMPLOYMENT	Research Physicist Acoustics Division, U.S. Naval Research Laboratory, Washington, DC	Nov. 2018 - Present
	Graduate Research Assistant Physics Department, Stony Brook University Stony Brook, NY	Jan. 2015 - Nov. 2018 May 2015 - Aug. 2015 Mar. 2014 - Aug. 2014
	Graduate Teaching Assistant Physics Department, Stony Brook University Stony Brook, NY	Aug. 2015 - Dec. 2015 Aug. 2014 - May 2015
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 Honors: <i>magna cum laude</i> Advisor: Antal Jevicki Senior Thesis: Quantization of symmetric spaces	Sep. 2009 - May 2013
PUBLICATIONS AND PRE-PRINTS	A. Ramamurti and D. C. Calvo, <i>Multisector parabolic equation approach to compute acoustic scattering by non-canonically shaped impenetrable objects</i> , Physical Review E (accepted, in production), arXiv:1912.02406 [physics.comp-ph].	
	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</i>	

numerical study of one- and two-component Coulomb quantum Bose gases, Physical Review D **95**, 076019, arXiv:1702.07723 [hep-ph].

I. Iatrakis, A. Ramamurti, and E. Shuryak, *Pomeron interactions from the Einstein-Hilbert action*, Physical Review D **94**, 045005, arXiv:1602.05014 [hep-ph].

I. Iatrakis, A. Ramamurti, and E. Shuryak, *Collective string interactions in AdS/QCD and high-multiplicity pA collisions*, Physical Review D **92**, 014011, arXiv:1503.04759 [hep-ph].

TALKS AND CONFERENCES

178th Meeting of the Acoustical Society of America
San Diego, CA Dec. 2019

Application of a multi-sector parabolic equation approach to compute acoustic scattering by non-canonically shaped impenetrable objects

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 Berkeley National Lab, Berkeley, CA Jan. 2018
The role of QCD monopoles in jet quenching

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

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

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

HONORS AND AWARDS

Jerome and Isabella Karle Fellowship Nov. 2018 - Nov. 2020
U.S. Naval Research Laboratory, Washington, DC

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

SKILLS

Programming Languages and Software

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

Programming Techniques

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