

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
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 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	May 2018

European Center for Theoretical Physics, Trento, IT
Recent progress in understanding the role of monopoles in QCD

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

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

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

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

HONORS AND Jerome and Isabella Karle Fellowship Nov. 2018 - Nov. 2020
AWARDS 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

- 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