

Curriculum Vitae

- Name:** Raju Venugopalan
- Education:** B.S., University of Chicago, *June 1987*.
Ph.D., Stony Brook, *August 1992*.
- Post-doctoral appointments:** *September 1992-August 1994*, Research Associate, Theoretical Physics Institute, Univ. of Minnesota, Minneapolis, MN
September 1994-December 1996, Research Associate, National Institute for Nuclear Theory, Univ. of Washington, Seattle, WA
January 1997-September 1998, Danish Research Council Fellow, Niels Bohr Institute, Copenhagen, Denmark
- Faculty appointments:** *October 2016-present*, Group Leader, Nuclear Theory Group, BNL
Sept. 2015-Sept. 2016, Excellence Initiative Guest Professor, Institute for Theoretical Physics, Heidelberg University
June 2010-July 2015, Group Leader, BNL Nuclear Theory
March 2007-present, Senior Scientist, BNL
March 2009-present, Adjunct Professor, Stony Brook University
Oct.98-March 2007, Asst., Assoc. and Physicist appointments, BNL
Awarded Tenure, June 2002.
- Honors/Key Appointments:** Humboldt Research Award (October 2016 -)
Director's Review Committee of the Nuclear Science Division, LBL (October 2016)
EMMI (GSI) Scientific Advisory Committee (2016-)
APS Division of Nuclear Physics Executive Committee (2016-2018)
National Advisory Committee, INT Seattle (2015-2017)
Excellence Initiative Award at Heidelberg University (2014-2016)
EMMI Visiting Professor (2014)
Chair, APS Topical Group on Hadron Physics (Chair line: 2014-17)
Editor, Annals of Physics (2013-)
Fulbright Senior Specialist Award (2012)
NSAC member (2012-2016) and NSAC LRP working group
Scientific Associate, Discovery Center, NBI, Copenhagen (2010-)
Chair, BNL Council (2010-2011)
Fellow of the American Physical Society (2007-)
A. Von Humboldt Foundation US Research Fellow (2004-2005)
Fellow RIKEN-BNL Research Center (2000-2003)
Univ. of Chicago Undergraduate Scholarship (1984-1987)

Scientific Activity:

Author of 132 published papers with ~14,500 citations (INSPIRE) -- among most highly cited in peer group worldwide

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Since 2010, published 46 papers (9 PRLs, 4 PLBs), which are cited 2894 times -- comparable to highest cited nuclear *and* particle theorists worldwide in this period

Most highly cited paper has 1602 citations. 4 other papers with 500+ citations, 4 with 250+, 28 with 100+ and 30 with 50+

25 Physics Colloquia since 2011, numerous plenary and invited talks

Research Highlights:

i) Co-author of the Color Glass Condensate (CGC) Effective Field Theory of high energy QCD -- work initiated a whole sub-field of nuclear theory. (Two topical reviews have ≥ 500 citations each.)

ii) Pioneered numerical and analytical techniques in real time studies of classical-statistical field theory. Recent discoveries include

-- non-equilibrium topological "sphaleron" transitions

-- universal, non-thermal fixed points in scalar and gauge theories

iii) Co-inventor of the IP-Glasma model, which provides the most successful description to date of high energy heavy-ion collisions

iv) Invented novel formalism for computing multi-particle production in strong time-dependent fields. Applied such ideas to construct factorization theorems and to numerous applications in hadron-hadron and hadron-nucleus collisions

v) Early proponent of the science case for an Electron-Ion Collider (EIC); pioneering computations have illustrated the scientific possibilities inherent in such a machine.

Other Highlights:

i) During my tenure as Group Leader, the BNL NT Group was top-rated amongst 62 DOE supported university and national lab groups in the 2013 Comparative Review.

ii) Co-Author of May 2015 feature article in Scientific American (widely translated worldwide and cover story of French Edition).

iii) Co-organized the INT report on EIC Science -- which laid out the science case for an EIC - the resulting 2011 document has > 300 citations to date.

Webpage:

More information is available on my web page:

<https://www.bnl.gov/physics/NTG/people/venugopalan.php>

A detailed publication list is available at:

http://inspirehep.net/search?ln=en&p=find+a+venugopalan%2Cr&of=hb&action_search=Search&sf=earliestdate&so=d