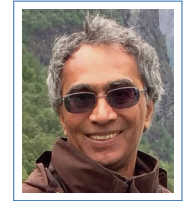


Vikram Vyas

Curriculum Vitae

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Education

1990 **Ph.D. in Physics**, *Boston University*, Boston, USA

Work Experience

- Present **Independent Scientist**, *PhysicsInField*, New Delhi, India
- 2015 - 2021 **Chairperson**, *The Ajit Foundation*, Bikaner, India
- 2012 - 2014 **Professor of Physics**, *Shiv Nadar University*, Gautam Budh Nagar, India
- 2003 - 2016 **Assistant Professor**, *St. Stephen's College*, Delhi, India
- 1994 - 2003 **Founding Director & Scientist**, *The Ajit Foundation*, Bikaner, India
- 1992 - 1994 **Postdoctoral Fellow & Limited Term Instructor**, *University of Utah*, Salt Lake City, USA
- 1990 - 1992 **Postdoctoral Fellow**, *University of Wuppertal*, Wuppertal, Germany

Visiting Positions

- 2020 - 2022 **Visiting Professor**, *Ashoka University*, Sonipat, India
- 2009 - 2010 **DAAD Guest Professor**, *University of Regensburg*, Regensburg, Germany
- 1999 - 2005 **Associate**, *Abdus Salam International Centre for Theoretical Physics*, Trieste, Italy

Selected Physics Talks

- July 2019 **What do the flux-tubes in confining theories look like?** , *Particle Theory and Cosmology Group, Department of Physics, Swansea University*, Swansea, UK
- June 2016 **What does the Gauge/Gravity Duality tells us about the Quark Confinement**, *Department of Physics and Astronomy, Aarhus University*, Aarhus, Denmark

- July 2013 **Heavy-Quark Potential: From a Fundamental String to a Flux-Tube**, *Indian Institute of Science*, Bangalore, India
- July 2010 **Intrinsic Width of Flux Tubes from Gauge/Gravity Duality**, *ECT, Trento*, Trento, Italy
- April 2010 **QCD Flux-tubes in Four Dimensions and Strings in Five Dimensions**, *TIFR*, Bombay, India
- June 2008 **Spin-String Interaction in QCD Flux-Tubes**, *Niels Bohr Institute*, Copenhagen, Denmark

Selected Publications in Theoretical Particle Physics

- Vikram Vyas **Flux-tubes in confining gauge theories with gravitational dual**, *arXiv:1904.06777*, 2019
- Vikram Vyas **Heavy Quark Potential from Gauge/Gravity Duality: A Large D Analysis**, *Phy. Rev. D 87 045026*, 2013, *arXiv:1209.0883*
- Vikram Vyas **Intrinsic Thickness of QCD Flux-Tubes**, *arXiv:1004.2679*, 2010
- Vikram Vyas **Spin-String Interaction in QCD Strings**, *Phys. Rev. D78 045003*, 2008

Physics for Sustainable Development

Publications

- A Model for Simulating Rainwater Harvesting System With Covered Tank**, *Vikram Vyas, Ajit Foundation, Report*, 1995
- Personal Computer as a Tool for Sustainable Development**, *Vikram Vyas, Ajit Foundation, Report*, 2001

Software

- *SimTanka* is a free and open-source app that facilitates the building and using of rainwater harvesting systems with covered tank. The iOS version of the app is currently being tested and is expected to be released in early 2023.
- *Jal-Chitra* was developed in collaboration with Barefoot College, Tilonia, India. It was a pioneering attempt at using geographical information system for generating water budget for a village.