



# GRAVITY RESEARCH FOUNDATION

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**The trustees are pleased to announce the Awards for Essays for 2014.**

1. \$4,000 - **From B-Modes to Quantum Gravity and Unification of Forces** by Lawrence M. Krauss<sup>[1]</sup> and Frank Wilczek<sup>[2]</sup>; <sup>[1]</sup>Department of Physics and School of Earth and Space Exploration, Arizona State University, PO BOX 871404 Tempe, AZ 85287-1404 and Mount Stromlo Observatory, Research School of Astronomy and Astrophysics, Australian National University, Weston, ACT, Australia 2611, <sup>[2]</sup>Department of Physics, MIT, Cambridge MA 02139; e-mail: [krauss@asu.edu](mailto:krauss@asu.edu), [wilczek@mit.edu](mailto:wilczek@mit.edu)
2. \$1,250 - **Black Holes as Gravitational Atoms** by Cenalo Vaz, University of Cincinnati, Cincinnati, Ohio 45221-0011; email: [Cenalo.Vaz@UC.Edu](mailto:Cenalo.Vaz@UC.Edu)
3. \$1,000 - **What Drives the Time Evolution of the Spacetime Geometry?** by T. Padmanabhan, IUCAA, Post Bag 4, Ganeshkhind, Pune 411 007, India; e-mail: [paddy@iucaa.ernet.in](mailto:paddy@iucaa.ernet.in)
4. \$750 - **Schrödinger's Cat and the Firewall** by Timothy J. Hollowood, Department of Physics, Swansea University, Swansea, SA2 8PP, UK; e-mail: [t.hollowood@swansea.ac.uk](mailto:t.hollowood@swansea.ac.uk)
5. \$500 - **Gravitational Waves and the (Quantum) Nature of the Primordial Seed** by Rafael A. Porto, School of Natural Sciences, Institute for Advanced Study, Olden Lane, Princeton, NJ 08540 and Deutsches Elektronen-Synchrotron DESY, Theory Group, D-22603 Hamburg, Germany; e-mail: [rporto@ias.edu](mailto:rporto@ias.edu)

**Selected for Honorable Mention this year were (listed in alphabetical order):** F. D. Albareti, J. A. R. Cembranos, and A. L. Maroto; C. R. Argüelles and R. Ruffini; Manjari Bagchi and Diego F. Torres; Shant Baghran, Saeed Tavasoli, Farhang Habibi, Roya Mohayaee, and Joseph Silk; Vijay Balasubramanian, Bartłomiej Czech, and Jan de Boer; Tom Banks and W. Fischler; Carlos Barceló, Raúl Carballo-Rubio, and Luis J. Garay; Spyros Basilakos, José Ademir Sales Lima, and Joan Solà; Christian G. Böhmer and Robert J. Downes; Marco Bruni, Juan Carlos Hidalgo, and David Wands; Saurya Das; John Bruce Davies; Laurent Freidel, Robert G. Leigh, and Djordje Minic; Rodolfo Gambini and Jorge Pullin; Zahra Haghani, Tiberiu Harko, Hamid Reza Sepangi, and Shahab Shahidi; Richard T. Hammond; Carlos A. R. Herdeiro and Eugen Radu; Shahar Hod; Kristan Jensen and Julian Sonner; Justin Khoury, Godfrey E. J. Miller, and Andrew J. Tolley; Huiquan Li; Samir D. Mathur; Leopoldo A. Pando Zayas; Fabrizio Pinto; Dirk Puetzfeld and Yuri N. Obukhov; Mukund Rangamani and Massimiliano Rota; Carlo Rovelli and Francesca Vidotto; Varun Sahni and Yuri Shtanov; Jeremy Sakstein, Bhuvnesh Jain, and Vinu Vikram; P. Salucci, C. Frigerio Martins, and E. Karukes; Anushrut Sharma and Tejinder P. Singh; C. S. Unnikrishnan and George T. Gillies

This announcement and abstracts of award-winning and honorable mention essays will be posted when ready on our web site, <http://www.gravityresearchfoundation.org>. The five award-winning essays will be published in a special issue of the International Journal of Modern Physics D (IJMPD). They will also be posted at a later date on our web site.