



GRAVITY RESEARCH FOUNDATION

PO BOX 81389
WELLESLEY HILLS MA 02481-0004
USA

Roger W. Babson
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The trustees are pleased to announce the Awards for Essays for 2012.

1. \$4,000 - **Can Effects of Quantum Gravity Be Observed in the Cosmic Microwave Background?** by Claus Kiefer and Manuel Krämer, Institute for Theoretical Physics, University of Cologne, Zülpicher Straße 77, 50937 Köln, Germany; e-mail: kiefer@thp.uni-koeln.de mk@thp.uni-koeln.de
2. \$1,250 - **What Can the Information Paradox Tell Us about the Early Universe?** by Samir D. Mathur, Department of Physics, The Ohio State University, Columbus, OH 43210; e-mail: mathur@mps.ohio-state.edu
3. \$1,000 - **The Unbearable Beingness of Light – Dressing and Undressing Photons in Black Hole Spacetimes** by Timothy J. Hollowood and Graham M. Shore, Department of Physics, Swansea University, Swansea, SA2 8PP, UK: e-mail: t.hollowood@swansea.ac.uk g.m.shore@swansea.ac.uk
4. \$750 - **Holographic Space-Time** by Tom Banks, NHETC and Department of Physics and Astronomy, Rutgers University, Piscataway, NJ 08854-8019, and SCIPP and Department of Physics, University of California, Santa Cruz, CA 95064-1077; e-mail: banks@scipp.ucsc.edu
5. \$500 - **Secret Life of the Spacetime** by T. Padmanabhan, IUCAA, Post Bag 4, Ganeshkhind, Pune – 411007, India; e-mail: paddy@iucaa.ernet.in

Selected for Honorable Mention this year were (listed in alphabetical order) Giovanni Amelino-Camelia, Valerio Astuti and Giacomo Rosati; Jacob D. Bekenstein; Adam R. Brown and Alex Dahlen; Marcelo Botta Cantcheff; Marios Christodoulou, Aldo Riello and Carlo Rovelli; Joseph P. Conlon; Christian Corda; Lawrence B. Crowell; Upasana Das and Banibrata Mukhopadhyay; Arundhati Dasgupta and Adamantia Zampeli; Aharon Davidson and Ben Yellin; Henrique P. de Oliveira, Leopoldo A. Pando Zayas and César A. Terrero-Escalante; Irina Dymnikova; Ariel Edery and Hugues Beauchesne; Homer G. Ellis; Tiberiu Harko and Francisco S. N. Lobo; Shahar Hod; Viqar Husain and Dawood Kothawala; Ted Jacobson; Priti Mishra and Tejinder P. Singh; Sujoy Kumar Modak and Douglas Singleton; Kouji Nakamura; M. B. Panranjape; Ira Z. Rothstein; Rolf Schimmrigk; C. Sivaram and Kenath Arun; Albert Stebbins; W.M. Stuckey, T.J. McDevitt and M. Silberstein; Yu Tian, Xiao-Ning Wu and Hongbao Zhang; Christos G. Tsagas; C. S. Unnikrishnan and G. T. Gillies; Ram Gopal Vishwakarma.

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.