



GRAVITY RESEARCH FOUNDATION

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The trustees are pleased to announce the Awards for Essays for 2018.

1. \$4,000 - **Gravity's Universality: The Physics Underlying Tolman Temperature Gradients** by Jessica Santiago and Matt Visser, School of Mathematics and Statistics, Victoria University of Wellington; PO Box 600, Wellington 6140, New Zealand; e-mail: jessica.santiago@sms.vuw.ac.nz, matt.visser@sms.vuw.ac.nz
2. \$1,250 - **A Microscopic Model for an Emergent Cosmological Constant** by Alejandro Perez^[1], Daniel Sudarsky^[2], and James D. Bjorken^[3], ^[1]Aix Marseille Univ, Université de Toulon, CNRS, CPT, Marseille, France, ^[2]Instituto de Ciencias Nucleares, Universidad Nacional, Autónoma de México, México, D.F. 04510, México, ^[3]SLAC National Accelerator Laboratory, Stanford University, Stanford, CA 94309; e-mail: perez@cpt.univ-mrs.fr, sudarsky@nucleares.unam.mx, bjbjorken@gmail.com
3. \$1,000 - **GR and Classical Mechanics: Magic?** by Ezra Newman, Dept of Physics and Astronomy, University of Pittsburgh, Pittsburgh, PA 15213; e-mail: newman@pitt.edu
4. \$750 - **The Kinetic Theory of the Mesoscopic Spacetime** by T. Padmanabhan, IUCAA, Pune University Campus, Ganeshkhind, Pune - 411 007, India; e-mail: paddy@iucaa.in
5. \$500 - **The Holographic Space-time Model of Cosmology** by Tom Banks^[1] and W. Fischler^[2], ^[1]NHETC and Department of Physics, Rutgers University, Piscataway, NJ 08854-8019, ^[2]Department of Physics and Texas Cosmology Center, University of Texas, Austin, TX 78712; e-mail: tibanks@ucsc.edu, fischler@physics.utexas.edu

Selected for Honorable Mention this year were (listed in alphabetical order): Ana Alonso-Serrano, Mariusz P. Dąbrowski, and Hussain Gohar; Sudarshan Ananth, Lars Brink, and Sucheta Majumdar; Swastik Bhattacharya and S. Shankaranarayanan; Jens Boos; Subenoy Chakraborty and Subhra Bhattacharya; Chiang-Mei Chen, Jian-Liang Liu, and James M. Nester; Christian Corda; Saurya Das, Mir Faizal, and Elias C. Vagenas; Éric Dupuis and M. B. Paranjape; Joshua Erlich; C. Fairros, Avirup Ghosh, and Sudipta Sarkar; Arthur E Fischer; Steven B. Giddings; Andri Gretarsson, Preston Jones, and Douglas Singleton; D. Grumiller and M.M. Sheikh-Jabbari; Richard T Hammond; Shahar Hod; Olaf Hohm; Sabine Hossenfelder and Tobias Mistele; Michael J. Kavic, Djordje Minic, and John Simonetti; Swanand Khanapurkar and Tejinder P. Singh; Stefano Lucat, Tomislav Prokopec, and Bogumila Świeżewska; Emil J. Martinec; Samir D. Mathur; Tim R. Morris; Joan Solà Peracaula; Fabrizio Pinto; Nikodem Poplawski; R. H. Sanders; W. M. Stuckey, Timothy McDevitt, A. K. Sten, and Michael Silberstein; Angelo Tartaglia; C. S. Unnikrishnan and George T. Gillies; Tanmay Vachaspati and George Zahariade; Yong Xiao.

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.