



GRAVITY RESEARCH FOUNDATION

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The trustees are pleased to announce the Awards for Essays for 2020.

1. \$4,000 - **The Noise of Gravitons** by Maulik Parikh^{[1][2]}, Frank Wilczek^{[1][3][4][5]}, and George Zahariade^[2], ^[1]Department of Physics, Arizona State University, Tempe, AZ 85287, ^[2]Beyond: Center for Fundamental Concepts in Science, Arizona State University, Tempe, AZ 85287, ^[3]Department of Physics, Stockholm University, Stockholm SE-106 91, Sweden, ^[4]Center for Theoretical Physics, Massachusetts Institute of Technology, Cambridge, MA 02139, ^[5]Wilczek Quantum Center, Department of Physics and Astronomy, Shanghai Jiao Tong University, Shanghai 200240, China; e-mail: maulik.parikh@asu.edu, frank.wilczek@asu.edu, george.zahariade@asu.edu
2. \$1,250 - **Lorentzian Quintessential Inflation** by David Benisty^{[1][2]} and Eduardo I. Guendelman^{[1][2][3]}, ^[1]Physics Department, Ben-Gurion University of the Negev, Beer-Sheva 84105, Israel, ^[2]Frankfurt Institute for Advanced Studies (FIAS), Ruth-Moufang-Strasse 1, 60438 Frankfurt am Main, Germany, ^[3]Bahamas Advanced Study Institute and Conferences, 4A Ocean Heights, Hill View Circle, Stella Maris, Long Island, The Bahamas; e-mail: benidav@post.bgu.ac.il, guendel@bgu.ac.il
3. \$1,000 - **A Proof of the Strong Cosmic Censorship Conjecture** by Shahar Hod, The Ruppin Academic Center, Emeq Hefer 40250, Israel and The Hadassah Institute, Jerusalem 91010, Israel; e-mail: shaharhod@gmail.com
4. \$750 - **Cosmological Constant in Coherent Quantum Gravity** by Craig Hogan, University of Chicago, 5640 S. Ellis Ave., Chicago, IL 60637 and Fermilab; e-mail: craighogan@uchicago.edu
5. \$500 - **Principle of Equivalence at Planck Scales and the Zero-Point-Length of Spacetime – A Synergistic Description of Quantum Matter and Geometry** by T. Padmanabhan, IUCAA, Pune University Campus, Ganeshkhind, Pune – 411 077, India; e-mail: paddy@iucaa.in

Selected for Honorable Mention this year were (listed in alphabetical order): Charis Anastopoulos and Konstantina Savvidou; Sebastian Bahamonde, Mir Faizal, James Q. Quach, and Richard A. Norte; Rabin Banerjee; John D. Barrow; Jens Boos; Michael Creutz; A. Danehkar; Camilla Danielski and Nicola Tamanini; Saurya Das; Aharon Davidson and Tomer Ygael; Douglas Edmonds, Djordje Minic, and Tatsu Takeuchi; Roberto Emparan; Arthur E. Fischer; Wen-Cong Gan and Fu-Wen Shu; D. Grumiller, M.M. Sheikh-Jabbari and C. Zwickel; Gregory W. Horndeski; Ted Jacobson and Phuc Nguyen; Qing-Quan Jiang, Yan Han, and Jin Pu; Jose Beltrán Jiménez, Dario Bettoni, and Philippe Brax; Barak Kol; Alexey S. Koshelev, K. Sravan Kumar, and Alexei A. Starobinsky; Amitabha Lahiri; Giuseppe Gaetano Luciano and Luciano Petrucciello; Rodrigo Maier; Philip D. Mannheim; Jun Nian and Leopoldo A. Pando Zayas; Marius Oltean, Hossein Bazrafshan Moghaddam, and Richard J. Epp; Murat Özer; M. B. Paranjape; M. A. Pérez-García and Joseph Silk; Fabrizio Pinto; Edgar Shaghoulian; Tejinder P. Singh; Douglas Singleton; Ram Gopal Vishwakarma; Jenny Wagner.

This announcement and abstracts of award-winning and honorable mention essays are posted on our web site, <http://www.gravityresearchfoundation.org>. The five award-winning essays are also posted on our web site and will be published in the October 2020 SPECIAL ISSUE of the International Journal of Modern Physics D (IJMPD).