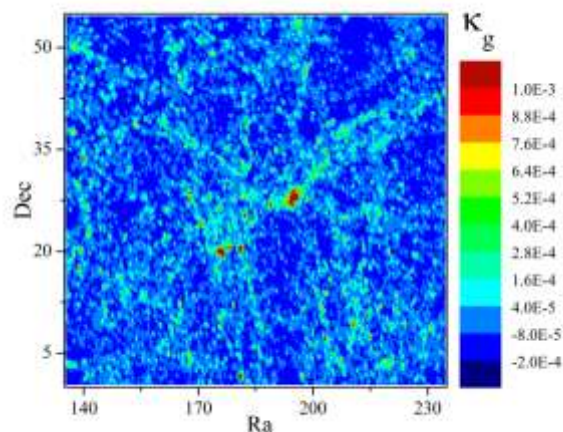


"Unravelling the nature of gravity with our clumpy Universe" article is in honorable mentioned essays list of Gravity Foundation Award - 2014

Shant Baghran, Saeed Tavasoli and Farhang Habibi (School of Astronomy (IPM)) and their collaborators in Institute d'Astrophysique de Paris (IAP), Roya Mohayaee and Joseph Silk are listed in the honorable mentioned essay writers of 2014 - Gravity Research Foundation.

Gravity Research Foundation (GFR) assigned 5 prizes each year for stimulating essays written in the field of Gravity. The foundation also announces the honorable mentioned essays, which with the prize winner essays, all are appeared in a special issue of gravity in International Journal of Modern Physics D (IJMPD) each year.

This year's first prize goes to Lawrence M. Krauss and Frank Wilczek from Department of Physics and School of Earth and Space Exploration, Arizona State University and Department of Physics, MIT.



Caption: The stacked map of over-dense and under-dense region in Universe

The essay "Unravelling the nature of gravity with our clumpy Universe" by SB, ST, FH, RM and JS, which is in the honored essays list, proposed a new method to test the gravity in cosmological scales. The idea is that SNIe as standard candles can be used to measure the amount of over-dense (group of galaxies) and under-dense (voids) in the line of sight. The redshift and scale dependence of this density contrast will be a promising tool to observe any deviation from general relativity. Future large scale structure surveys will increase the statistics of SNIe and will map the over/under dense regions of universe with more detail and more deeply. Consequently the method proposed in the essay will be a promising tool for upcoming years to understand the gravity.