

WELCOME TO EJTP AND 25th ISSUE!

Ignazio Licata

ISEM, Institute for Scientific and Methodology, Palermo, Italy

E-mail: ignazio.licata@ejtp.info

Dear Friends of EJTP,

As time passes by, a review becomes like a group of people sharing the same interests and passions.

So, we are glad to welcome some old and new friends as members of our Editorial Board: Hagen Kleinert, who contributes - in his Feynman-style - to the current issue with two impressive papers in perfect balance between the sense of Physics and mathematical skill (Converting Divergent Weak-Coupling into Exponentially Fast Convergent Strong-Coupling Expansions, and his extraordinary Hubbard-Stratonovich Transformation: Successes, Failure, and Cure); Kirsty Kitto, expert in Quantum languages applied to Complexity (let's remind her contribution "Process Physics . Quantum Theories as Models of Complexity" in "Physics of Emergence and Organization", Sakaji, A. and Licata, I. Eds, World Scientific, 2008); Maurizio Consoli, expert in Particle Physics and deep researcher of the connections between Quantum Vacuum and Condensed Matter (his work "The Vacuum Condensates: a Bridge from Particle Physics to Gravity ?" is included in the volume "Vision of oneness", which is about to be issued, edited by A. Sakaji and me); Avshalom Elitzur, well-known for the Elitzur-Vaidman bomb-testing Gedanken experiment and the acute enquirer of the Quantum Sphinx (the author with Shahar Dolev of "Undoing Quantum Measurement; Novel Twist to the Physical Account of Time" included in Physics of Emergence and Organization); Elvira Fortunato, one of the leading researcher in the field of quantum devices and nanotechnologies, universally known for the transparent transistors, a project for which she has been awarded with the prize of the European Research Council; Alessandro Giuliani, a biologist expert in folding protein, System Biology and Complexity, untired explorer of interdisciplinary boundaries. And four exceptional relativists Gerardo F. Torres del Castillo from Mexico, Francisco Javier Chinae from Spain, Peter O'Donnell from England and Yuriy Yaremko from Ukraine.

Majorana Prizes 2010: It is a pleasure for me to tell you that David Mermin has been awarded as Best Person in Physics for his fundamental contribution to Condensed Matter

Physics and for his role as a stimulating and creative source for the new generation of scientists. The Best Annual Paper goes to Tuluzov, and S. I. Melnyk for their “Physical Methodology for Economic Systems Modeling”. Robert Carroll has been awarded as the Best Special Issue Paper for his “Quantum Potential as Information: A Mathematical Survey”. Congratulations!

The space at my disposal is getting short, so I just tell you that the volume in your hands is one of the EJTP richest issue, a mark of a new phase of maturity.

Excellent contributions from every corner of the World and in every field. Just take a look at the index and you’ll realize what I mean. I concede myself a bit of arbitrariness by pointing out only some papers which are particularly interesting for me and my researchers. I apologize to all the other authors for such patent, whimsical choice!

Let’s start with the analysis of the N. N. Bogoliubov thought, one of the most important theoreticians of modern age, signed by A. L. Kuzemsky; C. Corda, Honorable Mention at 2009 Gravity Research Foundation Awards, with his ”A Clarification on the Debate on ”The Original Schwarzschild Solution”; Andres Castillo and Alexis Larranaga, whose “Entropy for Black Holes in the Deformed Horava-Lifshitz Gravity” adds an important brick in building a Quantum Gravity; Elio Conte with his beautiful work on the fundamental structure of Clifford algebra in Quantum Mechanics, the keystone for the extension of quantum languages; S Prabakaran continues his work in Econophysics by studying the market fluctuations from a thermodynamical viewpoint; Gouranga C. Nayak, C. N. Yang Institute for Theoretical Physics, comes back to one of the most important non-perturbative outcomes of QFT with “Schwinger Mechanism for Quark-Antiquark Production in the Presence of Arbitrary Time Dependent Chromo-Electric Field”; Joakim Munkhammar proposes an interesting connection between the Rovelli relational interpretation of QM, the Shannon information theory and Garret Lisi universal action by introducing a specific entropy of quantum systems (see also my paper in Physics of Emergence and Organization: ” Emergence and Computation at The Edge of Classical and Quantum Systems”); Nasr-eddine Hamri and Tarek Houmor focuses elegantly on the Chaotic dynamics of the Fractional Order Nonlinear Bloch System; E. M. Beniaminov investigates the classical roots of QM in a sort of ideal dialogue with A. Valentini and his Beyond the Quantum scenario.

Thanks, as usual, to **“a little help from my friends”** Ammar Sakaji and J. Lopez-Bonilla.

Enjoy your reading!

Ignazio Licata

EJTP Editor in Chief

May 2011.