Foreword

This issue is devoted to the memory of Mauro Francaviglia (22 June 1953- 24 June 2013).
That the music of the spheres be with you.

The new 29th issue of Electronic Journal of Theoretical Physics comes to his readers with few, but rich long and conceptually dense articles. As we have always tried to do in these years, quality before quantity, at the price of a very tough selection.

In recent years there has been an increasing interest in the deformed special relativity based on a generalization ("deformation") of the usual Minkowski space, supposedly endowed with a metric whose coefficients depend on the energy. A new contribution in this original line of geometrodynamical approach comes from F. Cardone, A. Petrucci and R. Mignani with Metric Gauge fields in Deformed Special Relativity. The work of this group gives us the opportunity to memorialize our friend and colleague Mauro Francaviglia, passed away in Cosenza on 24 June 2013. Full Professor at the University of Torino, since 1980, when he was 27 years old, Mauro was not only a great mathematician, with a rare taste for philosophical speculation,- his scientific interests covered a wide range of topics, the application of Differential Geometry in Mathematical Physics, Classical Mechanics, General Relativity and Field Theories, Calculus of Variations, Symmetries and Conservation Laws, Quantization and Thermodynamics-, but also an invaluable driving force for the international mathematics world. The last time I had the pleasure of hearing from Mauro, about two weeks ago, I succeeded in convincing him in participating to an anthology on Quantum Space-Time.

The essay by Oleg Kupervasser, Basic paradoxes of statistical classical physics and quantum mechanics explores in detail the complex territory that starts from the classical definitions of statistical physics to get to the quantum one. The style of Oleg is dialogic and subtle, a real "invitation to think.". Today we read too often articles full of formulas and without a clear physical meaning. The work of Oleg goes to the opposite direction, it analyzes the fundamental aspects and historical paradoxes (Schrodinger’s cat , Zeno Paradox, Loschmidt and Poincare, the hazardous attempts of "classical" interpretation of quantum mechanics ) to introduce a systems- based Observed Dynamics. The work thus reconcile the research activity with the epistemological one.

There follows the paper by Mushfiq Ahmad, Reciprocal Symmetric Kinematics and Cor-
respondence between Special Relativity and Quantum Mechanics.
The extensive review of David Fiscaletti explores the geometric approach to quantum
information based on the new Fisher-Bohm entropy Towards a geometrodynamic entropic
approach to quantum entanglement and the perspectives on quantum computing.
At the end, another great master of mathematical-physics, Charles Schwart starting
from his lately explorations on General Relativity – see Tachyons in General Relativ-
ity, arXiv:1011.4847v2 [math-ph] – proposes a new conjecture on tensor algebra rich in
physical implications in A Conjecture about Conserved Symmetric Tensors.
“He has preceded me a little in leaving this strange world. This is not important. For
us who are convinced physicists, the distinction between past, present, and future is only
an illusion, however persistent.” So wrote A. Einstein on March 21, 1955, - few months
before he died – to Michelangelo Besso family. Such words come to our mind for Mauro,
as well as for the astrophysicist Margherita Hack (Florence, June 21, 1922–Trieste – June
29, 2013), active in science and in civil rights too. The asteroid 8558 Hack is dedicated
to her.
Time seems not to pass for one of the fathers of Quantum Field Theory, Freeman Dyson
(Crowthorne, December 15, 1923). We wish him the best for his upcoming 90th birthday
and for the tour of conferences and celebrations all around the world. In the era of short-
sighted hyper5specialization. “the frog prince” of Physics has showed how and extreme
rigour can go with a great variety of interests, so embodying in his life the principle of
“extreme diversity”, that he theorized for the Nature! It has been an honour for me
editing his biography, properly titled “The importance to be unpredictable” (Di Renzo
Publ., 1998)
This issue closes a period of EJTP. The Journal will be back in Autumn with a lot of
novelties (stay tuned!) As for me I want to thank all EJTP staff for such formidable
years.
For this issue as well as all the others, my warm thanks to the Ed. Board and the referees
for their work. Specially to my friend Ammar Sakaji, he is able to “keep the route” under
any weather.
Ignazio Licata, EJTP Co-Editor