

**FINAL PROGRAM:** Vigier XI Symposium, Liege, Belgium - Penta Hotel  
Boulevard de la Sauveniere 100, B-4000 Liege, Belgium  
Sunday 5 August – Thursday 9 August 2016  
ADVANCES IN FUNDAMENTAL PHYSICS - Prelude to Paradigm Shift

**August 5 Sunday** – Arrival, Informal gathering at Penta Hotel Lounge/Bar/Restaurant  
in Evening from about 19:00 to 22:00 ...

**August 6 Monday** – Penta Hotel breakfast buffet opens at 06:30 AM

Symposium Registration (from 8 AM)

09:00 – 09:15 Richard Amoroso – Vigier 11 Welcome/ Important Business

09:15 – 10:00 LYNDON ASHMORE - Calculating the Redshifts of Distant Galaxies from First  
Principles – New Tired Light Theory

10:00 – 10:45 RICHARD GAUTHIER - Entangled Double-Helix Superluminal Composite Photon Model  
Defined by Fine Structure Constant

**10:45 – 11:30 Coffee Break**

11:30 – 12:15 WOLFGANG BAER - How the Object to Event Oriented Paradigm Shift Allows Inclusion  
of the Conscious Observer in Physical Theory

**12:15 -14:00 Lunch**

14:00 -15:00 1st Keynote Address DANIEL DUBOIS - Generalization of The Hyperincursive Discrete  
Klein-Gordon Equation to Real 16-Spinors, Deduction of the Majorana Real 4- Spinors and the Dirac  
Real 8-Spinors as An Extension of the Hyperincursive Discrete Harmonic Oscillator

15:00 – 15:45 JOHN WILLIAMSON - A New Linear Theory of Light and Matter

15:45 – 16:30 ANTON VRBA - Prelude to a Paradigm Shift: Thought Experiment Challenges the Weak  
Equivalence Principle

**16:30 – 17:15 Coffee Break**

17:15 – 18:00 NINA SOTINA - Causal Interpretation of Quantum Mechanics: The Schrödinger Equation as  
a Condition of Stability

18:00 – 18:45 NADIA LVOV & NINA SOTINA - Concepts of “Life” and “Soul” From the Standpoint of  
Quantum Physics

Dinner on Your Own

**August 7 Tuesday**

06:30 – 09:00 Penta Hotel breakfast buffet opens at 6:30 AM

09:00 – 10:00 Keynote Address PETER ROWLANDS - Constructing the Standard Model Fermions?

10:00 – 10:45 HÉCTOR A. MÚNERA - Symmetry in Nature: Discreteness, Three-Dimensional Extension  
and Minimum Potential Energy

**10:45 – 11:30 Coffee Break**

11:30 – 12:15 ALBRECHT GIESE – Ongoing Problems with Special and General Relativity, and Solutions

**12:15 -14:00 Lunch**

14:00 -15:00 25 2<sup>nd</sup> Keynote Address Daniel M. Dubois - Computational Hyperincursive Discrete Majorana  
Real 4-Spinors Equation and Dirac Real 8-Spinors Equation

15:00 – 15:45 ALBERT V. MINKEVICH - Physical Space-Time and Gravitational Interaction at  
Cosmological and Astrophysical Scales

15:45 – 16:30 IOAN HAS, SIMONA MICLAUS & AURELIAN HAS - A Corrected Reanalysis of the Two Swimmers Problem, As Frequent Model of Michelson's Interferometric Experiment

**16:30 – 17:15 Coffee Break**

17:15 – 18:00 CHRISTIAN B. MARCHAL - The Eötvös Experiment, GTR, Differing Gravitational and Inertial Masses: Proposition for a Crucial Test of Metric Theory

18:00 – 18:45 DIBYENDU PANIGRAHI - Towards an Exact Solution of FRW Type of Spacetime With a Generalized Chaplygin Gas - An Alternative Approach

Dinner on Your Own

**August 8 Wednesday**

06:30 – 09:00 Penta Hotel breakfast buffet opens at 6:30 AM

09:00 – 09:45 MARTIN B. VAN DER MARK - Quantum Particle, Light Clock or Heavy Beat Box?

09:45 – 10:30 LUDWIK KOSTRO -  $\Lambda$  - Toy Model of the Universe Constructed by Playing with Universal Constants recognized in Contemporary Physics

**10:30 – 11:15 Coffee Break**

11:15 – 12:00 CHRISTIAN B. MARCHAL - LIGO's "GW150914 Signal" Reproduced Under YARK Theory of Gravity

**12:00 -13:45 Lunch**

13:45 – 14:30 CY LO, DAVID P. CHAN & RICHARD C. Y. HUI - Oversights of Einstein & Maxwell and Invalidity of  $E = mc^2$

14:30 – 15:15 VADIM N. MATVEEV, OLEG V. MATVEJEV - The Terrell-Penrose Effect when Photographing a Sphere at Rest with a Moving Camera

15:15 – 15:45 VADIM N. MATVEEV, OLEG V. MATVEJEV - Relativistic Effects and EMF Localization in a Unipolar Generator

**15:45 – 16:15 Coffee Break**

16:15 – 17:00 ALBRECHT KRAKLAUER - Time dilation and Hamiltonian SR Mechanics After a review historical criticism of TD, an example of an SR invariant wave equation with multiparticle Interaction is presented

17:00 – 17:45 ALEX HANKEY - Thermodynamics, WPR Processes and the Quantum Theory of Open Systems

17:45 – 18:30 STEFAN W. PICKL - Integrated Assessment Models and their Resilience on Complex Networks

19:30 – 21:30 SYMPOSIUM BANQUET – Penta Hotel

**August 9 Thursday**

06:30 – 09:00 Penta Hotel breakfast buffet opens at 6:30 AM

09:00 – 09:45 ERIC TRELL - Structural Wave-Packet Tessellation of the Periodic Table and Atomic Constitution in real  $R^3 \times SO(3)$  Configuration Space

9:45 – 10:30 ROGER ANDERTON - Forces in Boscovich's Theory

**10:30 – 11:15 Coffee Break**

11:15 – 12:30 TIMUR F. KAMALOV - Quantum Correction for Newton's Law of Motion

12:30 – 1:15 RICHARD L. AMOROSO - Wildfire Attenuator: Dioxygen Dication Suppression by Amplified Matter-Wave Phase Adduction

13:15 – 13:30 Sabah E. Karam - Einstein Equivalence Principle: A Special Case of Zero-Totality, given by Ludwik Kostro

14:00 Thank You and Farewell !

See you at: Vigier 12 - Gala Vigier Centenary 2020 Paris, France