PROGRAM of the 25th International workshop ‘’What comes beyond the standard models’’ [Real and Virtual Workshop]

Monday, 4th of July 2022

7:00 – 8:30 Morning private discussion section

8:30 – 9:00 Breakfast

Morning session:

Chair person: Loriano Bonora

Bled/Ljubljana 09:00 Moscow/Tel Aviv 10:00 New Delhi 12:30 Beijing/Irkutsk 15:00 Tokyo 16:00 New York 03:00 San Francisco 00:00

09:00 – 09:30 N.S. Mankoč Borštnik: **Opening of 25th Bled workshop**

09:30 – 11:00 H.B. Nielsen*:* **Dusty dark matter pearls developed, I**

11.00 – 12:30 N.S. Mankoč Borštnik*:* **Understanding nature with the *spin-charge-family theory,*** I

12.30 – 13.00 Nonformal discussions made by H.B. Nielsen

13:00 Fast lunch

Afternoon session:

Chair person: H.B. Nielsen

Bled/Ljubljana 16:00 Moscow/Tel Aviv 17:00 New Delhi 19:30 Beijing/Irkutsk 22:00 Tokyo 23:00 New York 10:00 San Francisco 7:00

16:00 – 17:30: L. Bonora: **Elusive anomalies, I**

17.30 – 19:00: N.S. Mankoč Borštnik*:* **Understanding nature with the *spin-charge-family theory,* New way of second quantization of fermions and bosons,** II

19.00 – 20:00 S. Kabana, on behalf of D. Blaschke et al.
Thermal production of sexaquarks in heavy ion collisions, I

20:00 Dinner at Labod

21:30 Discussion section on questions of the day
Preparing program for the next day

PROGRAM of the 25th International workshop ‘’What comes beyond the standard models’’ [Real and Virtual Workshop]

Tuesday, 5th of July 2022

7:00 – 8:30 Morning private discussion section

8:30 – 9:00 Breakfast

Morning session:

Chair person: F. Lev

Bled/Ljubljana 09:00 Moscow/Tel Aviv 10:00 New Delhi 12:30 Beijing/Irkutsk 15:00 Tokyo 16:00 New York 03:00 San Francisco 00:00

09:00 – 09:15 N.S. Mankoč Borštnik **Discussion on how to make Workshop easy to follow**

09:15 – 10:45 E. Dmitrieff: **On construction of artificial empty space, I**

10:45 – 12:15 H.B. Nielsen*:* **Dusty dark matter pearls developped, II**

12:15 – 13:45 N.S. Mankoč Borštnik: **Understanding nature with the *spin-charge-family theory,* New way of second quantization of fermions and bosons,** III

13:45 Fast lunch

Afternoon session:

Chair person: H. B. Nielsen

Bled/Ljubljana 16:00 Moscow/Tel Aviv 17:00 New Delhi 19:30 Beijing/Irkutsk 22:00 Tokyo 23:00 New York 10:00 San Francisco 7:00

16:00 – 17:30: F. Lev: **The concept of particle-antiparticle in particle physics or Discussions of cosmological acceleration and dark energy,**
ZOOM

17.30 – 19:00 E. Dmitrieff: **On construction of artificial empty space, II**

19:00 Dinner at Labod

22:00 Discussion section on questions of the day
Preparing program for the next day

PROGRAM of the 25th International workshop ‘’What comes beyond the standard models’’ [Real and Virtual Workshop]

Wednesday, 6th of July 2022

7:00 – 8:30 Morning private discussion section

8:30 – 9:00 Breakfast

Morning session:
Chair person: A. Kleppe

Bled/Ljubljana 09:00 Moscow/Tel Aviv 10:00 New Delhi 12:30 Beijing/Irkutsk 15:00 Tokyo 16:00 New York 03:00 San Francisco 00:00

09:00 – 10:30 V,V, Monakhov: **Modules over Clifford algebras as a basis for the theory of second quantization of spinors, I , ZOOM**

10:30 – 12:00 P. Frampton: **Is there additional dark matter?, I, ZOOM**

12.00 – 14:00 H.B. Nielsen***:*** **A new view on cosmology, with non-translational invariant Hamiltonian, I (III)**

14:00 Fast lunch

Afternoon session:

Chair person: N.S. Mankoč Borštnik

Bled/Ljubljana 16:00 Moscow/Tel Aviv 17:00 New Delhi 19:30 Beijing/Irkutsk 22:00 Tokyo 23:00 New York 10:00 San Francisco 7:00

16:00 – 17:30 S.J. Brodsky: **Maximally precise tests of the Standard Model: Elimination of perturbative QCD renormalization scale and scheme ambiguities I,** ZOOM

17.30 – 19:00: R. Mohapatra: **A unified theory of neutrino mass, dark matter, baryogenesis and strong CP, I ZOOM**

19:00 Dinner at Labod

21:30 Discussion section on questions of the day
Preparing program for the next day

PROGRAM of the 25th International workshop ‘’What comes beyond the standard models’’ [Real and Virtual Workshop]

Thursday, 7th of July 2022

7:00 – 8:30 Morning private discussion section

8:30 – 9:00 Breakfast

Morning session:

Chair person: N.S. Mankoc-Mankoc

Bled/Ljubljana 09:00 Moscow/Tel Aviv 10:00 New Delhi 12:30 Beijing/Irkutsk 15:00 Tokyo 16:00 New York 03:00 San Francisco 00:00

09:00 – 10: 30 R. Bernabei**, Recent results and empowered DAMA/LIBRA-phase2 perspectives, I**

10.30 – 12:00 V,V. Monakhov : **Modules over Clifford algebras as a basis for the theory of second quantization of spinors, II.ZOOM**

12.00 – 13.30 M.Y. Khlopov**: Cosmological reflection of the BSM physics, I**

13:30 – 15:00 P. Salucci: **A Nietzschean paradigm for the dark matter phenomenon, I, ZOOM**

15:00 Fast lunch

Afternoon session:

Chair person: H.B.Nielsen

Bled/Ljubljana 16:00 Moscow/Tel Aviv 17:00 New Delhi 19:30 Beijing/Irkutsk 22:00 Tokyo 23:00 New York 10:00 San Francisco 7:00

16:00 – 17:30: P. Frampton: **Additional baryons and mesons I (II),** ZOOM

17.30 – 19:00: G.F. de Teramond: **Emergence of confinement and the proton mass scale: The holographic QCD perspective, I ZOOM**

19:00 Dinner at Labod

22:00 Discussion section on questions of the day
Preparing program for the next day

PROGRAM of the 25th International workshop ‘’What comes beyond the standard models’’ [Real and Virtual Workshop]

Friday, 8th of July 2022

7:00 – 8:30 Morning private discussion section

8:30 – 9:00 Breakfast

Morning session:

Chairperson: E. Dmitrieff

Bled/Ljubljana 09:00 Moscow/Tel Aviv 10:00 New Delhi 12:30 Beijing/Irkutsk 15:00 Tokyo 16:00 New York 03:00 San Francisco 00:00

09:00 – 10:30 H.B. Nielsen*:* **What gives a theory of** “**initial conditions”**

10:30 – 11: 30 F. Lev: **Discussion of cosmological acceleration and dark energy, I (II)**

11:30 – 12:30 M. Ildes: **Analytic solutions of scalar field cosmology, athematical structures for early inflation and late time accelerated expansion, I**

12.30 – 13.30 M.Y. Khlopov**: Cosmological reflection of the BSM physics, II**

13:30 – 14:30 A. Kleppe **Flavours, families, handedness**

14:30 Fast lunch

Afternoon session:

Chair person: M.Y.Khlopov

Bled/Ljubljana 16:00 Moscow/Tel Aviv 17:00 New Delhi 19:30 Beijing/Irkutsk 22:00 Tokyo 23:00 New York 10:00 San Francisco 7:00

16:00 – 17:30 S.J. Brodsky and L. di Giustino: **Maximally precise tests of the Standard Model: Elimination of perturbative QCD renormalization scale and scheme mbiguities II,** ZOOM

17.30 – 19:00: A. Hernandes-Galeana: **Fermion masses and mixing within a gauged SU(3) family symmetry model, I ZOOM**

19:00 Dinner at Labod

21:30 Discussion section on questions of the day
Preparing program for the next day

PROGRAM of the 25th International workshop ‘’What comes beyond the standard models’’ [Real and Virtual Workshop]

Saturday 9th of July 2022

7:00 – 8:30 Morning private discussion section

8:30 – 9:00 Breakfast

Morning session:

Chair person: H.B. Nielsen

Bled/Ljubljana 09:00 Moscow/Tel Aviv 10:00 New Delhi 12:30 Beijing/Irkutsk 15:00 Tokyo 16:00 New York 03:00 San Francisco 00:00

09:00 – 10: 30 L. Bonora: **Elusive anomalies, II**

10.30 – 11:30 O.M. Lecian: **Primordial antimatter and dark matter celestial objects, I ZOOM**

11.30 – 13.00 N.S. Mankoč Borštnik*:* **Understanding nature with the spin-charge-family theory, New way of second quantization of fermions and bosons,** III

13:00 --14:30 Discusions on:

A. black holes, B.Nature simple or complex

C. Nature assumes one time or? Why? Entropy.

14:00 Fast lunch

Afternoon session:

Chair person: M. Ildes:

Bled/Ljubljana 16:00 Moscow/Tel Aviv 17:00 New Delhi 19:30 Beijing/Irkutsk 22:00 Tokyo 23:00 New York 10:00 San Francisco 7:00

16: 00 – 17:30 S. R. Chowdhury: **The impact of mass transfer in the formation of compact binary merging I**

17.30 – 18:30 E. Dmitrieff: **Exponential fractal structure of quazicristals with Hn symmetry**

18:30 – 19:30: **Discussion section on topics beyond the Standard models (N. Mankoc, R. Mohapatra, P. Frampton, Holger Nielsen, Maxim Khlopov, A. Herandes,..)**

19:30 Dinner at Labod
22:00 Preparing program for next day

PROGRAM of the 25th International workshop ‘’What comes beyond the standard models’’ [Real and Virtual Workshop]

Sunday, 10th of July 2022

7:00 – 8:30 Morning private discussion section

8:30 – 9:00 Breakfast

Morning session:

Chair person: Paul Fampton

Bled/Ljubljana 09:00 Moscow/Tel Aviv 10:00 New Delhi 12:30 Beijing/Irkutsk 15:00 Tokyo 16:00 New York 03:00 San Francisco 00:00

09:00 – 10:30 P. Salucci: **A Nietzschean paradigm for the dark matter phenomenon, II, ZOOM**

10:30 – 12:00 K. Zioutas: **Planetary relationship as the new signature from the dark Universe, I ZOOM**

12: 00 – 14: 30 A. Dark energy, B. Nature simple or complex,

C. Nature assumes one time or? Why? Entropy, D. Many vacua,
E. Second quantization of fermions and bosons’, F. Masses

14:30 Fast lunch

Afternoon session:

Chair person: M. Khlopov

Bled/Ljubljana 16:00 Moscow/Tel Aviv 17:00 New Delhi 19:30 Beijing/Irkutsk 22:00 Tokyo 23:00 New York 10:00 San Francisco 7:00

16:00 – 17:30 A. Hernandez-Galeana: **Fermion masses and mixing within a gauged SU(3) family symmetry model, II, ZOOM**

17.30 – 18:30: N.S. Mankoč Borštnik, H.B. Nielsen, M.Y. Maxim*:* **Closing the real Part of the Workshop**

22:00 Preparing program for Virtual sessions

A. black holes (P.Frampton, M.Khlopov, Holger, Norma,….) .

B.Nature simple or complex (Norma, Rabi M., Paul F., H. Max….)

C. Nature assumes one time or? Why? Entropy.

D. Many vacuua, dark energy? (Holger, Maxim, Medine, Ildes,…)

E. Matter/antimatter (Paolo, Norma, Holger, Maxim,Orhidea,…)

F. Second quantization (of fermions and bosons) (Norma, Holger, ..)

G. Masses (

PROGRAM of the 25th International workshop ‘’What comes beyond the standard models’’ [Virtual Workshop]

Monday, 11th of July 2022

7:00 – 8:30 Morning private discussion section

8:30 – 9:00 Breakfast

Morning session:

Chair person: H.B. Nielsen

09:00 – 10:00 O.M. Lecian: **Primordial Antimatter and Dark Matter celestial objects II**

10:00 – 10:30 A.O.Kirichenko: **Propagation of antinuclei in galactic magnetic field**

10:30 – 11:00 A.V.Kravtsova: **Interaction of antinuclei with galactic interstellar gas**

11:00 – 12:00 K. Zioutas: **Planetary relationship as the new signature from the dark Universe. II**

11:00 – 12: 00 A. Ghoshal; **Sky meets laboratory via RGE: axions, Peccei-Quinn phase transitions and gravitational waves**

12:00 – 12: 45 F. Lev: **Concept of particle – antiparticle II**

12:45 – 13:30 D.Sopin: **Primordial asymmetry of new sequential superheavy quarks and leptons**

13.30 – 14:30 **Discussion on matter/antimatter**

14:30 Fast lunch

Afternoon session:

Chair person: N.S. Mankoč Borštnik

Bled/Ljubljana 16:00 Moscow/Tel Aviv 17:00 New Delhi 19:30 Beijing/Irkutsk 22:00 Tokyo 23:00 New York 10:00 San Francisco 7:00

16:00 – 17:30: **Discussion section on topics Light front technique (**Stan Brodsky, Andrei Kataev,……)

PROGRAM of the 25th International workshop ‘’What comes beyond the standard models’’ [Virtual Workshop]

Tuesday, 12th of July 2022

7:00 – 8:30 Morning private discussion section

8:30 – 9:00 Breakfast

Morning session:

Chair person: S.R.Chowdhury
09:00 – 10:00 S.Porey: **Near-inflection point inflation and production of dark matter during reheating.**
10.00 – 11.00. A. Chaudhuri: **Electroweak phase transition and entropy release in Z_2 symmetric extension of the Standard Model**

11:00 – 12:00 V. Beylin: **Neutrinos production by photons scattered on the dark matter**

12:00 – 14:30 **Discussion of open questions on BSM topics**

14:30 Fast lunch

Afternoon session:

16:00 – 18:30: **Chair person:** M.Yu.Khlopov
Bled/Ljubljana 16:00 Moscow/Tel Aviv 17:00 New Delhi 19:30 Beijing/Irkutsk 22:00 Tokyo 23:00 New York 10:00 San Francisco 7:00

16:00 – 17:30: R. Mohapatra: **A unified theory of neutrino mass, dark matter, baryogenesis and strong CP, II**

17.30 – 18:30: N.S. Mankoč Borštnik, H.B.Nielsen, M.Yu.Khlopov*:* **Closing the ZOOM Part of the Workshop**