

PROGRAM of the 29th International workshop “What comes beyond the standard models”

Monday, 6th of July 2026

Morning session:

Chair person: H. B. Nielsen

***Bled/Ljubljana 9:00 Moscow/Tel Aviv 10:00 New Delhi 12:30 Beijing/Irkutsk 15:00
Tokyo 16:00 New York ***03:00 San Francisco 0:00

9:00 – 9:15: N.S. Mankoč Borštnik: Opening the 29th International workshop “What comes beyond the standard models”.

9:15 – 9:30: M.Yu. Khlopov: Presentation of ZOOM.

9:30 – 11:30: N.S. Mankoč Borštnik: What new can the unified description of all fermion and boson fields, with gravity included, bring into explaining all observed fermion and boson fields and the interactions among these fields? I a

11:30 – 12:30: M.Yu. Khlopov: Open problems on the way to new Standard models, I.a.

12: 30 – 13:30: Lunch (Discussions)

Afternoon session:

Chair person: A. Kleppe

13:30- 15:30: A. Addazi: Aspects of Meta-Geometric Gravity: Emergence of Einstein’s Theory from a Spontaneously Broken Gauge Symmetry, I a.

15:30 – 17:30: Z. Berezhiani: Baryogenesis and matter conversion to antimatter: future sources of energy?

17:30-18:00: Coffee break

18:00 – 19:00: S. Kabana: Coalescence production of sexaquark (uuddss) in high-energy collisions

PROGRAM of the 29th International workshop “What comes beyond the standard models”

Tuesday, 7th of July 2026

8:00 – 9:00 Morning private discussion section

Morning session:

Chair person: N.S. Mankoč Borštnik

**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

9:00 – 10:30: A. I., Dembitskaia, M.Yu. Khlopov: Energy release from non-surviving antimatter domains

10:30 – 11:30: E. Dmitrieff: Effective Mass-Squared Operators without a Mass Basis: Flavor Oscillations from Tangential Hydrodynamic Modes and Topological Wall Defects, I.a.

11:30 – 13:00: A.B. Kaganovich: The Two-Measure Theory (TMT) and the Two-Measure Standard Model (TMSM), I.a.

13:00 – 13:30: Lunch (Discussions on the problems of the day)

Afternoon session:

Chair person: H. B. Nielsen

Bled/Ljubljana 14:00 Moscow/Tel Aviv 15:00 New Delhi 17:30 Beijing/Irkutsk 20:00 Tokyo 21:00 New York 8:00 San Francisco 5:00

13:30 – 15:00: A Addazi: Aspects of Meta-Geometric Gravity: Emergence of Einstein's Theory from a Spontaneously Broken Gauge Symmetry, II a

15:00 – 15:30: E. Mitzani : Categorification for theory of dimensions I.a.

15:30 – 16:30: A.Ghoshal: Vector-induced Gravitational Waves sourced via Primordial Magnetic Fields

16:30 -17:00 : Coffee break

17:00 – 18:00: A.Shah: Memory-Induced Effects in Quantum Cosmology

18:00 --19:00. O. Trivedi: The $w - c_2s$ Plane and the Misalignment Interpretation of Cosmic Tensions I.a

PROGRAM of the 29th International workshop “What comes beyond the standard models”

Wednesday, 8th of July 2026

7:00 – 9:00 Morning private discussion section

Morning session:

Chair person: K. Stepaniantz

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

9:00 – 11: 00: N.S. Mankoč Borštnik: What new can the unified description of all fermion and boson fields, with gravity included, bring into explaining all observed fermion and boson fields and the interactions among these fields? I.a.

11:00 – 12:30: A. Marciano: Fermion Condensate Inflation, Dynamical Waterfall Mechanism and Primordial Black Holes, I.a.

12.30 – 13:30: Lunch (Preparing program for the next day)

Afternoon session:

Chair person: A. Ghoshal

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

13:30 – 15:00: K.V. Stepaniantz: Application of Approximate renormalization group invariants and exact results for various supersymmetric theories, I.a.

15.00 – 16:30: J. Solà Peracaula: Running vacuum in the Universe: a unified framework for inflation and dark energy within quantum field theory, I.a.

16.30.-17:00 Coffee

17:00 – 18: 30: H.B. Nielsen

18:30 -19: 30 Discussion section on questions of the day

PROGRAM of the 29th International workshop “What comes beyond the standard models”

Discussions and talks without recording

Thursday, 9th of July 2026

7:00 – 9:00 Morning private discussion section

Morning session:

Chairperson: H. Kumar

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: .

10:30 -11:00 : Coffee break
Ia.

11:00 – 12:30: N.S. Mankoč Borštnik: What new can the unified description of all fermion and boson fields, with gravity included, bring into explaining all observed fermion and boson fields and the interactions among these fields? III.a:

12.30 – 13.30 : Lunch (Discussions)

Afternoon session:

Chair person: E. Dmitrieff

13.30 – 14:30: A.B. Kaganovich: The Two-Measure Theory (TMT) and the Two-Measure Standard Model (TMSM), II.a.

14:30 – 16: 00: A. Ghoshal: A. Vector-induced Gravitational Waves sourced via Primordial Magnetic Fields, I.a.

16.00 – 16.30 Coffee

.16:30 – 18:00:

PROGRAM of the 29th International workshop “What comes beyond the standard models”

Friday, 10th of July 2026

7:00 – 9:00 Morning private discussion section

Morning session:

Chairperson: N.S. Mankoč Borštnik

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 – 09:35: R. Bernabei: Model independent results from Dama/Libra Phase 2

09:45 -- 10:45:

10:30 – 12:00: A. Addazi: Aspects of Meta-Geometric Gravity: Emergence of Einstein's Theory from a Spontaneously Broken Gauge Symmetry, III.a.

12:00 – 13:30 : A. Marciano: Phantom crossing from the Standard Model of particle physics and General Relativity, with J. Liu and T. Manton and Y.-F. Cai. II.b.

13:30 – 14:30 Lunch (Discussions)

Afternoon session:

Chairperson: A. Hernandez-Galeana

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

14:30 – 15:30: H. Kumar: Small scale gravitational anomaly induced by peculiar massive photon dynamics, I.a.

15:30 – 16:30: E. Dmitrieff: The Hidden Multi-Line Geometry of Rational Fractions: Resolving Indeterminate Forms and Path Entropy via Extraction Operators, I.b.

16:30 – 17:30:

17:30 – 18:30: O. Trivedi, The $w - c_s^2$ Plane and the Misalignment Interpretation of Cosmic Tensions, I.a.II.a. .

20:00 Preparing program for the next day

PROGRAM of the 28th International workshop “What comes beyond the standard models”

Saturday, 11th of July 2026

7:00 – 8:30 Morning private discussion section

Morning session:

Chairperson: 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: H.B. Nielsen: .

10:30 – 12:00: N.I. Ayala Ona, T.P. Shestakova: Particle creation in an isotropic universe in the framework of the extended phase space approach

12:00 – 13:00: Lunch (Discussions)

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

13:00 – 14:30: N.S. Manko\ v c Bor\ v stnik: How to present and interpret the Feynman diagrams in the theory describing fermion and boson fields in a unique way, in comparison with the Feynman diagrams so far presented and interpreted? I.b

14.30 – 15:30:

16:30 – 17:30:

17:30 – 18:30:

22:00 Preparing program for Virtual sessions

PROGRAM of the 29th International workshop “What comes beyond the standard models”

Sunday 12 of July 2026

7:00 – 8:30 Morning private discussion section

Morning session:

Chairperson: 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

To talk the first time, Sopin, Sanyal, Mwilima, Karakhaskyan, Kepulaye, Krasnov, Miztang, Muchkinova, Aydemir, Balino, Basov, Sourab Chowdury, Beylin, Bikbaev, A. Chauduriy, Dep, Fargion, Haque, Kalashnikow, Antoniadis.

09:00 – 10:30: H.B. Nielsen:

10:30 – 12:00: E. Miztani: How Should We Interpret Space Dimension? -- Trial for a Mathematical Foundation in Higher Dimensional Physics I.a.

12:00 – 13:00: Lunch (Discussions)

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

13:00 – 14:30: Y. Basov: Investigation of the possibility of final-state radiation suppression in decays of dark matter particles

14.30 – 15:30: T.E. Bikbaev, M. Yu. Khlopov, Quantum-Mechanical Model of OHe⁺-Nucleus Interaction and Lifetime of OHe⁺-Nucleus Bound State

16:30 – 17:30:

17:30 – 18:30:

22:00 Preparing program for Virtual sessions

PROGRAM of the 29th International workshop ‘‘What comes beyond the standard models’’
Monday, 13th of July 2026

7:00 – 8:30 Morning private discussion section

Morning session:

Chair person:
09:30 – 11:00:

11:00 – 12:00 : M. Krasnov: Strong primordial inhomogeneities of axion-like field in Einstein–Gauss–Bonnet gravity

12:00 – 13:00:
13:00 – 14: 00:

13.00 – 14.00

14.00 – 15.00 D. Sopin; Balancing baryon and dark matter excess

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: A. Chaudhuri: Dark matter production from two evaporating PBH distributions.

17.30 – 19:00:

PROGRAM of the 29th International workshop “What comes beyond the standard models” [Virtual Workshop]

Tuesday, 14th of July 2026

7:00 – 8:30 Morning private discussion section

8:30 – 9:30 Breakfast

Morning session:

Chair person:

09:30 – 11:00 S. Ketov: Higgs boson mass and thermal wino dark matter from Starobinsky supergravity with the MSSM, I.a.

11:00 – 13:00: L. Bonora: Standard model, Gravity and conformal symmetry

12:30 – 14:00: N.M. Mankoc Borstnik: and H.B. Nielsen,

Afternoon session

16:00 – 18:30: **Chair person:** N.S.Mankoc Borstnik

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:

17.30 – 18:30:

PROGRAM of the 29th International workshop “What comes beyond the standard models” [Virtual Workshop]

Wednesday, 15th of July 2026

Morning session:

Chair person: M.Yu. Khlopov

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

09:30 – 11:00:

11:00 – 12:00:

12:00 – 13:30: H.B. Nielsen: A point of view of gravity as needed spontaneous breaking of local general linear group,

13:30 M.Khlopov.

PROGRAM of the 29th International workshop “What comes beyond the standard models” [Virtual Workshop]

Thursday 16th of July 2026

Morning session:

Chair person: M.Yu. Khlopov

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

Scientific debuts

09:30 – 11:00:

11:00 – 12:00

12:00 – 13:30

13:30 M.Khlopov. **Closing the ZOOM Part of the Workshop**