QUARKS-2026

Tuesday, 19 May 2026

Physics Beyond the Standard Model (12:20 - 14:00)

-Conveners: Mikhail Kirsanov

time	[id] title	presenter
12:20	[247] New physics with NICA beams	GORBUNOV, Dmitry
12:40	[276] Rare signatures at missing momentum experiments	KIRPICHNIKOV, Dmitry
13:00	[292] Pion bremsstrahlung as a possible source for dark photons	KRIUKOVA, Ekaterina
13:20	[391] A self-consistent U(1)-extended model of fermionic dark matter with scalar and gauge portals: associated production with third-generation fermions at electron–positron colliders	TRYKOV, Sergei
13:40	[226] Towards a muon collider	DUDKO, Lev

Physics Beyond the Standard Model (15:40 - 17:00)

-Conveners: Dmitry Kirpichnikov

time	[id] title	presenter
15:40	[365] Precise research of neutron decay and the need to Standard Model extension	SEREBROV, Anatoli
16:00	[279] Search for heavy axion-like particles in light-by-light scattering at the FCC-hh	KISSELEV, Alexander
16:20	[245] Searching for heavy neutrinos in $e^+ e^- \to W^+ W^-$: it is all about unitarity	GODUNOV, Sergey
16:40	[236] Lepton number violating processes and dark matter in models with a type I+II seesaw mechanism	FEDOTOVA, Elena

Physics Beyond the Standard Model (17:20 - 19:00)

-Conveners: Sergey Demidov

time	[id] title	presenter
17:20	[277] Recent results and plans of the NA64 experiment	KIRSANOV, Mikhail
17:40	[221] Constraints on millicharged particles from thunderstorms on the Solar system planets	DMITRIEVA, Ekaterina
18:00	[420] One-loop corrections to photon velocity in scalar LIV QED	ZUZIKOVA, Anastasia
18:20	[424] P,T-violating effects in molecules	ЗАХАРОВА, Анна
18:40	[434] One-stage first-order phase transition with a light supersymmetry-breaking sector	EFREMOV, Nikolay

Friday, 22 May 2026

Physics Beyond the Standard Model (11:00 - 12:20)

-Conveners: Victor Kim

time	[id] title	presenter
11:00	[379] Approximate renormalization group invariants and the Yukawa unification	STEPANYANTZ, Konstantin
11:20	[403] Constraints on scalar-mediated dark-matter searches from accelerator-based experiments and direct detection.	VORONCHIKHIN, ilia
11:40	[388] Spontaneous symmetry breaking as a result of extra dimensions compactification	TOPORENSKY, Alexey
12:00	[327] Smallness of neutrino masses and leptogenesis in 331 composite Higgs model	NEVZOROV, Roman

Physics Beyond the Standard Model (12:40 - 14:00)

-Conveners: Maxim Perfilov

time	[id] title	presenter
12:40	[180] General constraints on Extra Dimensional gravity in SMEFT approach	ALESHKO, Aleksei
13:00	[230] Dijets with a large rapidity separation for search of gravity with large extra dimensions in the trans-Planckian eikonal regime	EGOROV, Anatolii
13:20	[224] Testing Higgs CP properties at the CEPC with an additional ISR parameter	DRUTSKOY, Alexey
13:40	[191] Z production via vector boson fucion	BAGDATOVA, Alsu

Physics Beyond the Standard Model (15:40 - 17:00)

-Conveners: Petr Satunin

time	[id] title	presenter
15:40	[355] Development of the microMEGAS package for calculating dark matter signals.	PUKHOV, Alexander
16:00	[407] Unremovable neutrino induced background ebents for GERDA-like experiments	VYBOROV, Andrei
16:20	[197] Probing Dirac dark matter in xenon and argon experiments	BELYAKOVA, Maria
16:40	[286] Decays and annihilation of galactic dark matter: determine D-, Js-, Jpand Jd-factors with dark matter profiles inferred from GravSphere fit to stellar observations	KORESHKOVA, Ekaterina

Physics Beyond the Standard Model (17:20 - 19:00)

-Conveners: Yulia Ageeva

time	[id] title	presenter
17:20	[361] The Cosmological Axion Sarov Haloscope (CASH) project: search for dark-matter axions, dark photons and high-frequency gravitational waves beyond the quantum limit	SATUNIN, Petr

17:40	[360] Prospects for Laboratory Searches for Physics Beyond the Standard Model with Single-Photon Detectors in RF Cavities	SALNIKOV, Dmitry
18:00	[346] EM effects of gravitational shock waves	PIROZHENKO, Irina
18:20	[232] Electromagnetic response to impulsive gravitational impact	EVGENY, Davydov
18:40	[378] Bootstrap approach for bispectrum in Bounce Universe model	STEPANOV, Maxim