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The 6th international conference on particle physics and astrophysics

Wednesday 30 November 2022

Gravitation and Cosmology: Session 1 - Petrovskiy 2 (11:00-13:00)

-Conveners: Alexander Zakharov

time	[id] title	presenter
11:00	[44] Weyl Geometry, Perfect Fluid and Induced Gravity	Prof. BEREZIN, Victor
11:15	[45] Tidal properties of D-dimensional Tangherlini spacetime	Mr. VANDEEV, Vyacheslav
11:30	[108] The semiclassical limit of quantum gravity and the problem of time	SHESTAKOVA, Tatyana
11:45	[126] Compactification scenario in Gauss-Bonnet gravity	TOPORENSKY, Alexey
12:00	[274] Inflationary models with Gauss-Bonnet term	POZDEEVA, Ekaterina
12:15	[316] Notes to Modernization of the Standard Model	Prof. BURDYUZHA, Vladimir
12:30	[304] Two-step Multiverse production	Prof. RUBIN, Sergey
12:45	[273] Integrable F(R) gravity cosmological models with an additional scalar field	IVANOV, Vsevolod

Gravitation and Cosmology: GC Session 2 - Petrovskiy 2 (18:00-20:00)

-Conveners: Konstantin Belotsky

time	[id] title	presenter
18:00	[7] Shadows near supermassive black holes: from a theoretical concept to GR test	ZAKHAROV, Alexander
18:15	[134] Defining spins of supermassive black holes M87* and SgrA* from the form of dark spots at their EHT images	DOKUCHAEV, Vyacheslav
18:30	[261] Wormholes in a Friedmann Universe	Prof. BRONNIKOV, Kirill
18:45	[281] Nonstationary configurations of a spherically symmetric massless scalar field	Dr. TCHEMARINA, Julia
19:00	[302] The spectrum of quantum states of BTZ black hole formed by a collapsing dust shell.	Dr. STARODUBTSEV, Artem ANDRIANOV, aleksandr
19:15	[77] Tidal disruption of stars by supermassive black holes and naked singularities with scalar hair	TSIRULEV, Alexander
19:30	[141] On quasinormal modes in 4D black hole solutions in the model with anisotropic fluid	IVASHCHUK, Vladimir
19:45	[345] Compact extra dimensions as the source of primordial black holes	NIKULIN, Valery

Friday 02 December 2022

Gravitation and Cosmology: GC Session 3 - Moskvorechye 1 (11:15-13:00)

-Conveners: Konstantin Belotsky

time	[id] title	presenter
11:15	[347] Noether symmetrical gravity Lagrangian as a fourth order polynomial in Ricci and Gauss-Bonnet scalars not involving a cosmological constant or dark matter	Prof. POKROVSKY, Yury
11:30	[175] Constraints on primordial black holes from interstellar dust temperature	MELIKHOV, Aleksandr
11:45	[278] Formation of primordial black hole clusters in early dark matter halos	STASENKO, Viktor
12:00	[292] Copernican Principle Beyond the FLRW Universe	MONDOL, Ranjini
12:15	[324] Null cosmic strings as sources of gravitational bursts	Dr. DAVYDOV, Evgeny
12:30	[294] Simulation of soliton foam formation in early Universe	Mr. MURYGIN, Boris
12:45	[328] Influence of three-body recombination on formation of dark atoms	Mr. KALASHNIKOV, Dmitry

Gravitation and Cosmology: GC Session 4 - Moskvorechye 1 (17:45-19:35)

-Conveners: Alexander Kirillov

time	[id] title	presenter
17:45	[359] A new vacuum state for quantum fields in curved spacetime and its application to cosmology	PINTO-NETO, Nelson
18:05	[3] Production of baryon asymmetry and relic gravitational waves by random hypermagnetic fields	DVORNIKOV, Maxim
18:20	[68] Gravitational baryogenesis: problems and possible resolution	Prof. ARBUZOVA, Elena
18:35	[84] Nuclear decay oscillations as possible emergent gravity effect	Dr. MAYBUROV, Sergey
18:50	[106] Gravitational waves from the merger of two primordial black hole clusters	Dr. EROSHENKO, Yury
19:05	[217] Potential gravitational lensing on a CMB cosmic string candidate	Mr. BULYGIN, Igor
19:20	[228] Near-inflection point inflation and production of dark matter during reheating.	POREY, Shiladitya