

## Tue 17/9

08:00

**Registration**

Yerevan, Armenia

08:30 - 09:30

09:00

**Opening addresses (University officials, organizers)**

Yerevan, Armenia

09:30 - 09:50

10:00

**Some Quantum Effects in de Sitter Spacetime with Compact Dimensions***Dr Anna Kotanjyan*

Yerevan, Armenia

09:50 - 10:25

**Searching for new physics with future CMB experiments***Prof. Levon Pogosian*

Yerevan, Armenia

10:25 - 11:00

11:00

**Vacuum polarization by cosmic strings***Prof. Aram Saharian*

Yerevan, Armenia

11:00 - 11:35

**Coffee break**

Yerevan, Armenia

11:35 - 11:55

12:00

**Vacuum currents in braneworlds with compact dimensions***Stefano Bellucci*

Yerevan, Armenia

11:55 - 12:30

**Potentially observable cylindrical wormholes without exotic matter in general relativity***Prof. Kirill Bronnikov*

Yerevan, Armenia

12:30 - 13:05

13:00

**Lunch Break**

14:00

Yerevan, Armenia

13:05 - 14:30

**Low-mass stellar objects in modified gravity***Dr Aneta Magdalena Wojnar***Transport properties in magnetized compact stars***Toshitaka Tatsumi*

	<i>Yerevan, Armenia</i>	14:30 - 15:00	<i>Yerevan, Armenia</i>	14:30 - 15:00
15:00	<b>Cosmological Models with Hybrid Scale Factor</b> <i>Yerevan, Armenia</i>	<i>Sunil Kumar Tripathy</i> 15:00 - 15:30	<b>LOCV calculation of equation of state and binary neutron stars</b> <i>Yerevan, Armenia</i>	<i>zahra sharifi</i> 15:00 - 15:30

16:00	<b>Excursion to Garni and Gegard</b>			
17:00				
18:00	<i>Yerevan, Armenia</i>			16:00 - 18:00

## Wed 18/9

09:00	<b>The universe acceleration in modified gravity: an overview</b>		<i>Prof. Sergey Odintsov</i>
	<i>Yerevan, Armenia</i>		09:00 - 09:40
10:00	<b>Time-Dependent Density Functional Theory for Fermionic Superfluids: from Cold Atomic Gases, to Nuclei and Neutron Stars Crust</b>		<i>Prof. Aurel Bulgac</i>
	<i>Yerevan, Armenia</i>		09:40 - 10:20
	<b>Coffee break</b>		
	<i>Yerevan, Armenia</i>		10:20 - 10:40
11:00	<b>High-Density Nuclear Symmetry Energies from Observations of Neutron Stars and Gravitational Waves</b>		<i>Prof. Bao-An Li</i>
	<i>Yerevan, Armenia</i>		10:40 - 11:20
	<b>Cosmic matter in the laboratory- The Compressed Baryonic Matter experiment at FAIR</b>		<i>Prof. Peter Senger</i>
	<i>Yerevan, Armenia</i>		11:20 - 12:00
12:00	<b>Lunch break</b>		

13:00	Yerevan, Armenia		12:00 - 13:30
	<b>Merger of compact stars in the two-families scenario</b> Yerevan, Armenia	<i>giuseppe pagliara</i> 13:30 - 14:00	<b>Scalar Field and Quintessence in Gauge Symmetry Group <math>SU(2) \times U(1)</math></b> <i>Prof. Ashot Gevorgyan</i>
14:00	<b>Cosmological constant induced by a bulk scalar in braneworlds with compact dimensions</b>	<i>Hayk Sargsyan</i>	<b>First-order phase transition from hypernuclear matter to deconfined quark matter obeying new constraints from compact ...</b> <i>Mahboubeh Shahrbafe</i>
	<b>Coffee break</b> Yerevan, Armenia		14:30 - 15:00
15:00	<b>Electrodynamics of axion-active system: polarization and stratification of plasma in an axionic dyon magnetosphere.</b>	<i>Mr Dmitri Groshev</i>	<b>Decrease in Mass of the Protoquark Stars During their Cooling</b> Yerevan, Armenia 15:00 - 15:30 <i>Mr Gevorg Hajyan</i>
	<b>Electromagnetic vacuum densities around a cosmic string in de Sitter spacetime</b>	<i>Dr Vardan Manukyan</i>	<b>Second look to the Polyakov Loop Nambu-Jona-Lasinio model at finite baryonic density</b> <i>Dr Oleksii Ivanytskyi</i>
16:00	<b>Coffee break</b> Yerevan, Armenia		16:00 - 16:30
	<b>More on Complexity in Finite Cut Off Geometry</b> Yerevan, Armenia	<i>Seyedeh Sedigheh Hashemi</i> 16:30 - 17:00	<b>Investigations of region of extended radio source 3C315</b> Yerevan, Armenia 16:30 - 17:00 <i>Dr Martik Hovhannisyan</i>
17:00	<b>Dynamics of anisotropic dark energy universe embedded in one-directional magnetized fluid</b>	<i>PRATIK PREMADARSHI RAY</i>	<b>Small Anisotropy in Stellar Objects in Modified Theories of Gravity</b> <i>Dr Shaswata Chowdhury</i>

Thu 19/9

09:00	<b>Delineating the properties of matter in cold, dense QCD</b> Yerevan, Armenia		<i>Prof. Toru Kojo</i> 09:00 - 09:40
10:00	<b>Implications of Binary Neutron Star and Black Hole-Neutron Star Mergers for Neutron Stars and Dense Matter</b> Yerevan, Armenia		<i>James Lattimer</i> 09:40 - 10:20
	<b>Coffee break</b> Yerevan, Armenia		10:20 - 10:40

**Hydrostatic equilibrium and stellar structure in Extended Gravity**

*Salvatore Capozziello*

11:00

*Yerevan, Armenia*

10:40 - 11:20

**The neutron star crust: Elasticity, breaking strength, durability and enhancement of the thermonuclear reaction rates**

*Dr Andrey Chugunov*

*Yerevan, Armenia*

11:20 - 12:00

12:00

**Lunch break**

*Yerevan, Armenia*

12:00 - 13:30

13:00

**Excursion to Gyumri**

*Yerevan, Armenia*

13:30 - 19:00

14:00

15:00

16:00

17:00

18:00

19:00

**Excursion to Sevan Lake**

*Yerevan, Armenia*

13:30 - 19:00

## Fri 20/9

09:00	<b>Young magnetars with fracturing crusts as fast radio burst repeaters</b> <span style="float: right;"><i>Dr Arthur Suvorov</i></span>  <i>Yerevan, Armenia</i> <span style="float: right;">09:00 - 09:40</span>	
10:00	<b>Quark-hadron pasta phases for two-phase approaches and the third family of compact stars</b> <span style="float: right;"><i>David Blaschke</i></span>  <i>Yerevan, Armenia</i> <span style="float: right;">09:40 - 10:20</span>	
	<b>Coffee break</b>  <i>Yerevan, Armenia</i> <span style="float: right;">10:20 - 10:40</span>	
11:00	<b>On the role of fluctuations in compact objects</b> <span style="float: right;"><i>Bernd-Jochen Schaefer</i></span>  <i>Yerevan, Armenia</i> <span style="float: right;">10:40 - 11:20</span>	
	<b>Formation of Galaxies, Black Holes, Stars and SNs In scope of Non-Inflationary Cosmology</b> <span style="float: right;"><i>Prof. Ara Avetissian</i></span>  <i>Yerevan, Armenia</i> <span style="float: right;">11:20 - 12:00</span>	
12:00	<b>Lunch break</b>	
13:00	<i>Yerevan, Armenia</i> <span style="float: right;">12:00 - 13:30</span>	
	<b>Tachyonic DGP cosmological model with an exponential potential: Dynamical System approach</b> <span style="float: right;"><i>Dr Arvin Ravanpak</i></span>  <i>Yerevan, Armenia</i>	<b>Modeling anisotropic magnetized white dwarfs with <math>\gamma</math> metric</b> <span style="float: right;"><i>Ms Alvear Diana</i></span>  <i>Yerevan, Armenia</i> <span style="float: right;">13:30 - 14:00</span>
14:00	<b>Quantum effects for a spherical shell in the Milne universe</b> <span style="float: right;"><i>Mr Tigran Petrosyan</i></span>  <i>Yerevan, Armenia</i> <span style="float: right;">14:00 - 14:30</span>	<b>Astrophysical aspects of general relativistic mass twin stars</b> <span style="float: right;"><i>Noshad Khosravi</i></span>  <i>Yerevan, Armenia</i> <span style="float: right;">14:00 - 14:30</span>
	<b>Coffee break</b>  <i>Yerevan, Armenia</i> <span style="float: right;">14:30 - 15:00</span>	
15:00	<b>Hybrid Star Properties within the Nambu - Jona-Lasinio (NJL) Model for Quark Matter and Relativistic Mean Field (RMF) Model f...</b> <span style="float: right;"><i>Dr Grigor Alaverdyan</i></span>  <i>Yerevan, Armenia</i>	<b>Affine Gravity: From vacuum to matter in affine spacetime</b> <span style="float: right;"><i>Dr Azri Hemza</i></span>  <i>Yerevan, Armenia</i> <span style="float: right;">15:00 - 15:30</span>
	<b>Some aspects of the cooling of neutron stars</b> <span style="float: right;"><i>Dr Hovik Grigorian</i></span>  <i>Yerevan, Armenia</i> <span style="float: right;">15:30 - 16:00</span>	<b>Vacuum fluxes from a brane in de Sitter spacetime with compact dimensions</b> <span style="float: right;"><i>Dr David Simonyan</i></span>  <i>Yerevan, Armenia</i> <span style="float: right;">15:30 - 16:00</span>

16:00

**Coffee break**

*Yerevan, Armenia*

16:00 - 16:30

**Influence of strong magnetic field on the equation of state and the structure properties of strange quark stars** *Ms Fatemeh Kayanikhoo*

**Massive bosonic conformal zero mode in the spatially compactified FRW spacetimes and its detection** *Dr Vladimir Toussaint*

17:00

**Cosmological models with a Hybrid Scale Factor**

*Dr Sunil Kumar Tripathy*

*Yerevan, Armenia*

17:00 - 17:30

18:00

19:00

**Social dinner**

*Yerevan, Armenia*

19:00 - 22:00

20:00

21:00

22:00

Sat 21/9

09:00

**Special Session devoted to 80th anniversary of Prof. David M. Sedrakian**

*Yerevan, Armenia*

09:00 - 09:20

	<b>Time-dependent Ginzburg-Landau equations for interacting neutron-proton superfluid in neutron stars</b> <i>Yerevan, Armenia</i>	<i>Prof. Karen Shahabasyan</i> 09:20 - 09:50
10:00	<b>Bulk viscosity of baryonic matter with trapped neutrinos</b> <i>Yerevan, Armenia</i>	<i>Dr Arus Harutyunyan</i> 09:50 - 10:20
	<b>Coffee break</b> <i>Yerevan, Armenia</i>	10:20 - 10:40
	<b>Special session devoted to 60th anniversary of Prof. David Blaschke</b> <i>Yerevan, Armenia</i>	10:40 - 11:00
11:00	<b>Bayesian Analysis for Extracting Properties of the Nuclear Equation of State</b> <i>Yerevan, Armenia</i>	<i>Alexander Ayriyan</i> 11:00 - 11:30
	<b>Third family of compact stars within a nonlocal chiral quark model equation of state</b> <i>Yerevan, Armenia</i>	<i>Dr David Edwin Alvarez Castillo</i> 11:30 - 12:00
12:00	<b>The fourth family of compact stars</b> <i>Yerevan, Armenia</i>	<i>Armen Sedrakian</i> 12:00 - 12:30
13:00	<b>Excursion to Wine Factory</b>	
14:00	<i>Yerevan, Armenia</i>	12:30 - 14:30