Workshop Program International Online Workshop on Relativistic Astrophysics and Gravitation

### IWRAG-2021

May 12	(UTC+5)	Conference Opening 10:30 Greetings from		Day 1
IVIAY 12		Ajit Kembhavi and Shuhrat Ehgamberdiev		
11:00	Plenary Talks	Speaker/Chair: Ahmadjon Abdujabbarov	Title of talk	
	11:00 - 11:20 11:20 - 11:40	Bobomurat Ahmedov Medeu Abishev	Development and Perspectives of Relativistic Astrophysics in Uzbekistan Effects of nonlinear electrodynamics of vacuum in the magnetic field of a magnetar	
	11:40 - 12:20	Naresh Dadhich	Higher dimensional rotating black holes cannot be formed by an accretion process	
	12:20 - 13:00	Cosimo Bambi	Testing General Relativity with black hole X-ray data: recent progress and future developments	
13:00	13:00 - 14:00	Lunch/Coffee break		
14:00	14:00 - 14:40	Chair: Shuhrat Mardonov Jutta Kunz	Scalarized Black Holes	
	14:40 - 15:20	Wenbiao Han	Testing propagation effects of gravitational waves	
	15:20 - 16:00	Farrukh Fattoyev	GW190814: Impact of a 2.6 solar mass neutron star on the nucleonic equations of state	
16:00	16:00 - 17:00	Lunch break		
17:00	Contributed Talks	Speaker/Chair: Ashfaque Bokhari	Title of talk	
	17:00 - 17:20	Ahmadjon Abdujabbarov	Optical properties of black hole	
	17:20 - 17:40	Muhammad Zaeem Ul Haq Bhatti	Dynamical Analysis of Self-gravitating Objects in Modified Gravity	
	17:40 - 18:00	Zoha Tariq	Effects of electromagnetic field on the structure of massive compact objects	
18:00	18:00 - 18:20	Rabia Saleem	Study of Interacting Dark Sectors using Chevallier-Polarsky-Linder Type Parametrization	
	18:20 - 18:40	Zeeshan Yousaf	The Measure of Complexity in Spherical Relativistic Geometry	
10:00	18:40 - 19:00	Ibrar Hussain	Broken Lie Symmetries and the Energy Content of Some Charged Black Hole Spacetimes	
19:00				

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### IWRAG-2021

May 13	(UTC+5)		Day 2
10:00	Plenary Talks	Speaker/Chair: Yusufjon Tillayev	Title of talk
	10:00 - 10:40	Sarah Antier	Multi-messenger observations with GRANDMA
	11:00 - 11:40	Ernazar Abdikamalov	Explosions of massive stars
	11:40 - 12:20	Sandybek Kunakov	To the chromodynamics of nuclei fissioning
	12:20 - 13:00	Pankaj Joshi	Gravitational Collapse, Black Holes and Naked Singularities
13:00	13:00 - 14:00	Lunch/Coffee break	
14:00	14:00 - 14:40	Chair: Askar Abdikamalov Toshitaka Kajino	Nucleosynthetic Evidence for Primordial & Stellar Black Holes and Binaries
	14:40 - 15:20	Mubasher Jamil	Gravitational lensing and shadows for some spherically symmetric black holes
	15:20 - 16:00	Yuri Shtanov	Constraints in inflationary magnetogenesis
16:00	16:00 - 17:00	Lunch break	
17:00	Contributed Talks	Speaker/Chair: Ugur Camci	Title of talk
	17:00 - 17:20	Martin Kolos	Charged particle motion in black hole magnetosphere
	17:20 - 17:40	Viktoriya Giryanskaya	The gravitational wave signal from core-collapse supernovae
	17:40 - 17:55	Dmitriy Ovchinnikov	Light curves of the hot spots on the circular orbits around Generic Regular Black Hole Related to Nonlinear Electrodynamics with Maxwellian Weak-field Limit
18:00	17:55 - 18:10	Aleksandra Demyanova	Dynamics of charged and magnetized particles around cylindrical black holes immersed in external magnetic field
	18:10 - 18:25	Dina Kairatkyzy	Dark matter halo
	18:25 - 18:40	Bakhtiyor Narzilloev	Kerr-Taub-NUT spacetime to explain the energetics of black hole candidates
	18:40 - 18:50	Pulat Tadjimuratov	Effects of STVG modifiel gravity on neutrons star radiation
	18:50 - 19:00	Yunus Turaev	Kerr-Newman black holes as sources of relativistic jets
19:00			

# Workshop Program International Online Workshop on Relativistic Astrophysics and Gravitation

## IWRAG-2021

May 14	(UTC+5)		Day 3
11:00	Plenary Talks	Speaker/Chair:	Title of talk
	11:00 - 11:40	Chair: Kuantay Boshkayev Luca Baiotti	Gravitational waves from binary neutron stars
	11:40 - 12:20	Asghar Qadir	Virial clouds and frequency asymmetry in galactic halos
	12:20 - 12:40 12:40 - 13:00	Dana Alina Bekdaulet Shukirgaliyev	Magnetic field in Monoceros OB1 East cloud The evolution star clusters with centrally peaked star-formation efficiency
13:00	13:00 - 14:00	Lunch/Coffee break	
14:00	14:00 - 14:40	Chair: Francesco De Paolis Vladimir Dzhunushaliev	Nonperturbative quantization a la Heisenberg
	14:40 - 15:20	Sushant Ghosh	Shadows of hairy Kerr black holes and constraints from M87*
	15:20 - 16:00	Daniele Malafarina	Properties of a class of black hole mimickers
16:00	16:00 - 17:00	Lunch break	
17:00	Contributed Talks	Speaker/Chair:	Title of talk
	17:00 - 17:20	<b>Chair: Bobomurat Ahmedov</b> Rustam Ibadov	The fundamental equation of the field theory in De Sitter pulse space
	17:20 - 17:35	Yusufjon Tillayev	Perspectives of optical astronomy at Maidanak observatory
	17:35 - 17:45	Sardor Murodov	Wormhole solutions in higher curvature theories
	17:45 - 18:00	Sardor Tojiev	Gauss-Bonnet boson stars
18:00	18:00 - 18:20	Algis Malybayev	On exact dyon-like black hole solutions in the model with two Abelian gauge fields and two scalar fields
	18:20 - 18:40	Kuantay Boshkayev	Quasinormal modes in the field of a dyon-like dilatonic black hole
	18:40 - 18:50 18:50 - 19:00	Shukhrat Mardonov Nozima Juraeva	Coupled dynamics of two polarons-one-dimensional Bose - Einstein condensate in a parabolic potential Test particles around Hayward black holes surrounded by quintessential medium
19:00	10.00 10.00		

Astronomiya Instituti is inviting you to a scheduled Zoom meeting.

Topic: May 12-14, 2021, International Online Workshop on Relativistic Astrophysics and Gravitation, IWRAG-2021 Time: This is a recurring meeting Meet anytime

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