

ULUGH BEG ASTRONOMICAL INSTITUTE



**is inviting you for the
INTERNATIONAL WORKSHOP ON
“Relativistic Astrophysics and Gravitation”
IWRAG-2021
To be held in online regime (*ZOOM* platform)
on 12-14 May 2021**

№	Event	Time*	Date ZOOM link
1	Plenary Talks	10.00 – 16.00.	<p>12-14 May, 2021</p> <p>Theme: Plenary talks of international Workshop "Relativistic Astrophysics and Gravitation" Time: 12 May 2021 10:00 AM Islamabad, Karachi, Tashkent</p> <p>Zoom link for Workshop https://zoom.us/j/91533068962?pwd=ZfVqaGp5RUVBec9YOFgwcHBHMGc1Zz09 (Meeting ID): 915 3306 8962 (Password): 871160</p>
2	Contributed Talks	17.00 – 19.00.	<p>12-14 May, 2021</p> <p>Theme: Contributed talks of international Workshop "Relativistic Astrophysics and Gravitation" Time: 12 May 2021 17:00 AM Islamabad, Karachi, Tashkent</p> <p>Zoom link for Workshop https://zoom.us/j/91533068962?pwd=ZfVqaGp5RUVBec9YOFgwcHBHMGc1Zz09 (Meeting ID): 915 3306 8962 (Password): 871160</p>

*The time, mentioned in this program, is Tashkent (Islamabad, Karachi) time everywhere (GMT+5)

Workshop Program
International Online Workshop on Relativistic Astrophysics and Gravitation
IWRAG-2021

May 12	(UTC+5)	Conference Opening 10:30		Day 1
10:30 Opening Ceremony At the opening ceremony the participants of IWRAG-2021 will be greeted by		Ajit Kembhavi	<i>The former Director of the IUCAA/Vice President of the International Astronomical Union</i>	
		Shuhrat Ehgamberdiev	<i>The Director of Ulugh Beg Astronomical Institute</i>	
11:00	Plenary Talks	Speaker/Chair: Ahmadjon Abdujabbarov Title of talk		
	11:00 - 11:20	Bobomurat Ahmedov	<i>Development and Perspectives of Relativistic Astrophysics in Uzbekistan</i>	
	11:20 - 11:40	Medeu Abishev	<i>Effects of nonlinear electrodynamics of vacuum in the magnetic field of a magnetar</i>	
	11:40 - 12:20	Naresh Dadhich	<i>Higher dimensional rotating black holes cannot be formed by an accretion process</i>	
	12:20 - 13:00	Cosimo Bambi	<i>Testing General Relativity with black hole X-ray data: recent progress and future developments</i>	
13:00	13:00 - 14:00	Lunch/Coffee break		
14:00	14:00 - 14:40	Chair: Shuhrat Mardonov		
	14:00 - 14:40	Jutta Kunz	<i>Scalarized Black Holes</i>	
	14:40 - 15:20	Wenbiao Han	<i>Testing propagation effects of gravitational waves</i>	
	15:20 - 16:00	Farrukh Fattoyev	<i>GW190814: Impact of a 2.6 solar mass neutron star on the nucleonic equations of state</i>	
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	<i>Optical properties of black hole</i>	
	17:20 - 17:40	Muhammad Zaeem Ul Haq Bhatti	<i>Dynamical Analysis of Self-gravitating Objects in Modified Gravity</i>	
	17:40 - 18:00	Zoha Tariq	<i>Effects of electromagnetic field on the structure of massive compact objects</i>	
18:00	18:00 - 18:20	Rabia Saleem	<i>Study of Interacting Dark Sectors using Chevallier-Polarsky-Linder Type Parametrization</i>	
	18:20 - 18:40	Zeeshan Yousaf	<i>The Measure of Complexity in Spherical Relativistic Geometry</i>	
	18:40 - 19:00	Ibrar Hussain	<i>Broken Lie Symmetries and the Energy Content of Some Charged Black Hole Spacetimes</i>	
19:00				

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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	<i>Explosions of massive stars</i>
	11:40 - 12:20	Sandybek Kunakov	<i>To the chromodynamics of nuclei fissioning</i>
	12:20 - 13:00	Pankaj Joshi	<i>Gravitational Collapse, Black Holes and Naked Singularities</i>
13:00	13:00 - 14:00	Lunch/Coffee break	
14:00	14:00 - 14:40	Chair: Askar Abdikamalov	Title of talk
	14:00 - 14:40	Toshitaka Kajino	<i>Nucleosynthetic Evidence for Primordial & Stellar Black Holes and Binaries</i>
	14:40 - 15:20	Mubasher Jamil	<i>Gravitational lensing and shadows for some spherically symmetric black holes</i>
	15:20 - 16:00	Yuri Shtanov	<i>Constraints in inflationary magnetogenesis</i>
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	<i>Charged particle motion in black hole magnetosphere</i>
	17:20 - 17:40	Viktoriya Giranskaya	<i>The gravitational wave signal from core-collapse supernovae</i>
	17:40 - 17:55	Dimitry Ovchinnikov	<i>Light curves of the hot spots on the circular orbits around Generic Regular Black Hole Related to Nonlinear Electrodynamics with Maxwellian Weak-field Limit</i>
18:00	17:55 - 18:10	Aleksandra Demyanova	<i>Dynamics of charged and magnetized particles around cylindrical black holes immersed in external magnetic field</i>
	18:10 - 18:25	Dina Kairatkyzy	<i>Dark matter halo</i>
	18:25 - 18:40	Sardor Tojiev	<i>Gauss-Bonnet boson stars</i>
	18:40 - 18:50	Pulat Tadjimuratov	<i>Effects of STVG modified gravity on neutrons star radiation</i>
	18:50 - 19:00	Yunus Turaev	<i>Kerr-Newman black holes as sources of relativistic jets</i>
19:00			

Workshop Program

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May 14 (UTC+5)		Day 3	
11:00	Plenary Talks	Speaker/Chair:	Title of talk
	11:00 - 11:40	Chair: Kuantay Boshkayev Luca Baiotti	<i>Gravitational waves from binary neutron stars</i>
	11:40 - 12:20	Asghar Qadir	<i>Virial clouds and frequency asymmetry in galactic halos</i>
	12:20 - 12:40	Dana Alina	Magnetic field in Monoceros OB1 East cloud
	12:40 - 13:00	Bekdaulet Shukirgaliyev	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	Daniele Malafarina	<i>Properties of a class of black hole mimickers</i>
	15:20 - 16:00	Sushant Ghosh	<i>Shadows of hairy Kerr black holes and constraints from M87*</i>
16:00	16:00 - 17:00	Lunch break	
17:00	Contributed Talks	Speaker/Chair:	Title of talk
	17:00 - 17:20	Chair: Bobomurat Ahmedov 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	<i>Wormhole solutions in higher curvature theories</i>
	17:45 - 18:00	Bakhtiyor Narzilloev	<i>Kerr-Taub-NUT spacetime to explain the energetics of black hole candidates.</i>
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	Shukhrat Mardonov	<i>Coupled dynamics of two polarons-one-dimensional Bose - Einstein condensate in a parabolic potential</i>
	18:50 - 19:00	Nozima Juraeva	Test particles around Hayward black holes surrounded by quintessential medium
19:00			

THE END

THANK YOU FOR YOUR CONTRIBUTION!