

大会邀请报告

(会议中心：5号楼B201报告厅)

腾讯会议ID：695-4481-7740 会议密码：220704

腾讯会议链接：<https://meeting.tencent.com/dm/tggJRN2e4E0d>

日期	时间	报告人	报告方式	报告题目	主持人
4日 上午	08:30-09:00	开幕式（领导致辞）			郭宗宽
	09:00-09:20	合影			
	09:20-10:00	黄庆国	线上	原初黑洞暗物质	
	10:00-10:40	曾化碧	线下	从带毛黑洞到非平衡统计物理	
	10:40-11:10	合影、茶歇			耿朝强
	11:10-11:50	魏少文	线下	黑洞热力学相变及其微观结构	
	11:50-12:30	舒富文	线下	引力全息与量子信息物理	
8日 上午	08:30-09:10	张承勇	线上	Black hole scalarization and dynamical critical behaviors	岳瑞宏
	09:10-09:50	胡佳伟	线下	Unruh effect and entanglement generation for non-inertial Unruh-DeWitt detectors	
	09:50-10:30	周文婷	线下	时空量子性质及真空长程效应	
	10:30-10:50	茶歇			余洪伟
	10:50-11:30	李 理	线上	From black holes to amorphous solids: elasticity, yielding and entropy	
	11:30-12:10	周 洋	线上	额外维部分约化与黑洞信息	
	12:10-12:30	闭幕式（优秀报告颁奖）			

分会报告 A（会议中心：湖滨B103湖光厅）

Classical GR: Theoretical developments

Section A Classical GR: Mathematical developments

Alternative and modified theories of gravity

腾讯会议ID：840-4744-7557

会议密码：220704

腾讯会议链接：<https://meeting.tencent.com/dm/Yak35aosBDAd>

日期	时间	报告人	报告方式	报告题目	主持人	
4日 下午	14:30-14:50	王 鹏	线上	Observational Signatures of Black Holes with Multiple Photon Spheres	曹利明	
	14:50-15:10	付启铭	线上	非线性电动力学中带电黑洞的弱偏转角		
	15:10-15:30	闫浩鹏	线上	Observabilities of near-horizon sources with various motions		
	15:30-15:40	王 毅	线上	Thermodynamics of hairy accelerating black holes in gauged supergravity and beyond		
	15:40-15:50	安裕平	线上	No Charged Scalar Hair Theorem for Static de-Sitter Black Hole		
	15:50-16:00	张震宇	线下	Shadow of Kerr black hole surrounded by an angular Gaussian distributed plasma		
	16:00-16:30	茶歇				
	16:30-16:50	吴 滨	线下	Holographic thermodynamics of BTZ black hole	马永亮	
	16:50-17:10	郝 鑫	线下	Kinetic theory and relativistic thermodynamics		
	17:10-17:20	马 良	线下	混合Chern-Simons高阶导数理论的黑洞热力学研究与Wald形式		
17:20-17:30	杨 昊	线下	Internal structure and its connection with thermodynamics and dynamics in black holes			
17:30-17:40	李明达	线下	Triple points and novel phase transitions of dyonic AdS black holes with quasi-topological electromagnetism			
17:40-17:50	郭 阳	线下	Charged black-bounce spacetimes: Photon rings, shadows and observational appearances			
	17:50-18:00	王 超	线下	Ruppeiner geometry of the RN-AdS black hole using shadow formalism		

6日 下午	14:30-14:50	葛先辉	线上	Chaos bound and geodesic motion of charged particles near a charged black hole	缪炎刚	
	14:50-15:10	肖 勇	线上	On the leading order corrections to the black hole thermodynamics of higher curvature gravities		
	15:10-15:30	付春娥	线上	The gauge invariance of massive vector KK modes in brane world		
	15:30-15:40	侯业辉	线上	Image of Kerr-Melvin black hole with thin accretion disk		
	15:40-15:50	韩善忠	线上	The Weyl double copy for vacuum gravity solutions with a cosmological constant		
	15:50-16:00	牛 睿	线上	Constraining scalar-tensor theories by neutron star-balck hole gravitational wave events		
	16:00-16:30	茶歇				高显
	16:30-16:50	朱 涛	线下	Tests of parity symmetry of gravity with gravitational waves		
	16:50-17:10	兰 晨	线下	Singularities of regular black holes and the art of monodromy method for asymptotic quasinormal modes		
	17:10-17:30	张 铭	线下	Conformal scalar NUT-like dyons in conformal electrodynamics		
	17:30-17:40	杨镇豪	线下	Spontaneous scalarization of black holes with a positive cosmological constant		
	17:40-17:50	谭 钦	线下	Sound from extra dimension: quasinormal modes of thick brane		
17:50-18:00	胡钰敏	线下	Covariant 3 + 1 correspondence of the spatially covariant gravity and the degeneracy conditions			
7日 上午	10:30-10:50	杨润秋	线上	When null energy condition meets ADM mass	张宏升	
	10:50-11:10	夏同生	线上	Report on a possible charge forming mechanism		
	11:10-11:20	饶浩民	线上	Nieh-Yan modified teleparallel gravity		
	11:20-11:30	林厚羽	线上	四维爱因斯坦-洛夫洛克黑洞近旁粒子周期轨道运动	潘启沅	
	11:30-11:50	彭 俊	线上	Stable bouncing universe in non-local gravity		
	11:50-12:00	郝宇诗	线上	Cosmic inflation from broken conformal symmetry		
	12:00-12:10	杜欣怡	线上	修改引力理论对引力波旋进并合铃振的修正		
	12:10-12:20	李冠儒	线下	高阶QED修正对欧拉海森堡AdS黑洞相变的影响		
	12:20-12:30	杨四江	线下	Destroying the Event Horizon of a Nonsingular Rotating Quantum-Corrected Black Hole		

分会报告 B（会议中心：湖滨B102天目厅）

Relativistic astrophysics

Numerical relativity

Approximations, perturbation theory, and their applications

Cosmology: Theory and observations

Section B

腾讯会议ID：836-3316-1052

会议密码：220704

腾讯会议链接：<https://meeting.tencent.com/dm/oJldLXJgwXYz>

日期	时间	报告人	报告方式	报告题目	主持人
4日 下午	14:30-14:50	张玉鹏	线下	Dynamics of scalar hair with self-interactions around Schwarzschild black hole	王永强
	14:50-15:10	郭俊起	线下	Energy and dynamics in critical collapse	
	15:10-15:20	陈一千	线下	The Appearance of Stars accreted by Hairy Black Holes with Multiple Photon Spheres	
	15:20-15:30	梁 琛	线下	Spherical multistate Dirac-boson stars	
	15:30-15:40	孙世贤	线下	玻色星链	
	15:40-15:50	何振涛	线下	二维厚膜碰撞的数值模拟	
	15:50-16:00	郭 森	线下	Regular时空和Rastall引力中黑洞阴影的光学外观	
	16:00-16:30	茶歇			胡亚鹏
	16:30-16:50	肖 智	线上	Lorentz对称性破缺的标准模型扩展理论(SME)中引力-费米子耦合和电磁-费米子耦合的类比	
	16:50-17:10	麦展风	线上	Superradiant Instability of Extremal Black Holes in STU supergravity	
	17:10-17:20	胡诗杨	线上	吸积流对形变施瓦西黑洞阴影及光子环的影响	
	17:20-17:30	张泽林	线上	Image and Polarization of Bonnor black Dihole with Accretion Disk	
	17:30-17:40	秦 欣	线上	Polarized image of an equatorial emitting ring around a Kerr-MOG black hole	
	17:40-17:50	王慧敏	线下	Optical appearance of Einstein-Æther black hole surrounded by thin disk	
	17:50-18:00	李 钊	线下	Gravitational Faraday rotation of gravitational waves by a Kerr black hole	
	18:00-18:10	张 丹	线下	Quasi-normal modes and Hawking radiation of a charged Weyl black hole	

6日 下午	14:30-14:50	钟 渊	线下	奇异Poschl-Teller势与引力扭结		吴普训	
	14:50-15:10	王梦杰	线下	Bifurcation of the Maxwell quasinormal modes with Robin boundary conditions			
	15:10-15:30	房熊俊	线下	Gauge Invariant Perturbations of General Spherically Symmetric Spacetimes			
	15:30-15:40	武鹏举	线上	A path to precision cosmology: Synergy between four promising late-universe cosmological probes			
	15:40-15:50	秦哲涵	线上	Phase Information in Cosmological Collider Signals			
	15:50-16:00	张 明	线上	Cosmology with HI intensity mapping for delay spectrum with MeerKAT interferometer mode			
	16:00-16:30	茶歇					
	16:30-16:50	皮 石	线上	Primordial Black Holes in Non-minimal Curvaton Scenario		赵文	
	16:50-17:00	王嘉宁	线上	Primordial black hole formation in Starobinsky model			
	17:00-17:10	惠 鹏	线上	The effect of torsion on spin one-half particle			
	17:10-17:30	周 勇	线上	Improving the constraints of high-redshift Cosmography by using PAge approximation			
	17:30-17:50	喻 豪	线下	Correspondence between energy conservation and energy-momentum tensor conservation in cosmology			
	17:50-18:00	陈博海	线下	The Phase Space Analysis of Interacting K-essence Dark Energy Models in Loop Quantum Cosmology			
7日 上午	10:30-10:50	韩成成	线上	Affleck-Dine Leptogenesis from Higgs Inflation		王科	
	10:50-11:00	朱 勉	线上	Alternative-to-Inflation Scenarios from DHOST Cosmology			
	11:00-11:10	王清扬	线上	Weyl R^2 模型中的暴胀宇宙学与暗物质产生机制			
	11:10-11:20	赵泽伟	线上	利用未定位的快速射电暴测量哈勃常数			
	11:20-11:30	王凌风	线上	利用LISA-太极引力波探测网络及脉冲星计时阵列实现宇宙学参数的精确测量			
	11:30-11:50	祁景钊	线下	A new way to explore cosmological tensions		朱涛	
	11:50-12:00	翟荣荣	线上	The growth of power spectrum due to decrease of sound speed during inflation			
	12:00-12:10	陈礼阳	线上	The primordial non-Gaussianity in inflation with the gravitationally enhanced friction			
	12:10-12:20	高立扬	线上	用PCA和深度学习消除极化泄漏的影响			
	12:20-12:30	邵 悦	线上	Probing Simultaneously the Dark Matter and Heating History of the Universe with HI Absorption Lines			

分会报告 C（会议中心：湖滨B104茶韵厅）

Section C

Gravitational wave astronomy: searches, data analysis, parameter estimation
Astrophysics and multi-messenger astronomy with gravitational waves
Gravitational waves: Present and future of ground-based and space-based detectors
Experimental gravitation

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日期	时间	报告人	报告方式	报告题目	主持人
4日 下午	14:30-14:50	张 宏	线上	Searching for Wormholes with Gravitational Wave Scattering	祁景钊
	14:50-15:10	王 刚	线上	Alternative LISA-TAIJI networks	
	15:10-15:30	王 赫	线上	Exploring Gravitational-Wave Detection and Parameter Inference using Deep Learning	
	15:30-15:50	杜明辉	线上	Orbital Resonance of Satellites under the Gravitational Waves from Supermassive Black Hole Binaries	
	15:50-16:00	黎根亮	线上	Probing Dark Matter Spikes via Gravitational Waves of Extreme-Mass-Ratio Inspirals	
	16:00-16:30	茶歇			
	16:30-16:40	金上捷	线上	Precisely measuring the Hubble constant and dark energy using only gravitational-wave dark sirens	薛迅 (线上)
	16:40-16:50	刘峥岩	线上	Prospects of Searching Kilonova with WFST	
	16:50-17:00	李国鹏	线上	Time-dependent stellar-mass binary black hole mergers in AGN disks: Mass distribution of hierarchical mergers	
	17:00-17:10	刘宇强	线下	高维引力波极化模式及其可能的观测	
	17:10-17:30	Morgan Le Delliau	线下	Teleparallel Gravities as a gauge theories: TEGR and STGR	
	17:30-17:50	彭秋和	线下	关于黑洞问题的争论	

6日	下午	14:30-14:50	卢伯强	线下	Probing WIMPs in space-based gravitational wave experiments	张建东
		14:50-15:00	印沛然	线下	Experiments with levitated force sensor challenge theories of dark energy	
		15:00-15:10	庄嘉伦	线下	Possible explanations for the late-time radio flare of ASASSN-15oi	
		15:10-15:20	李彦	线上	Quasi-periodic oscillation of short gamma ray bursts from black hole-neutron star mergers	
		15:20-15:30	陈春	线上	Radiative Diffusion in a Time-dependent Outflow: a Model for Fast Blue Optical Transients	
		15:30-15:40	刘睿琦	线上	大振幅扭秤测G实验中光学探测系统研究	
		15:40-15:50	苏铂烨	线上	Probing Ultralight Bosons with Compact Eccentric Binaries	
		15:50-16:00	刘畅	线上	Research on the spectral properties of black hole X-ray binary mini-outbursts	
		16:00-16:30	茶歇			
		16:30-16:50	任婧	线上	Gravitational wave echoes search and quasinormal modes analysis	胡彬 (线上)
16:50-17:10	牛家树	线上	月基激光干涉仪引力波探测器			
17:10-17:20	吴利明	线上	基于太极一号卫星数据的低阶地球重力场模型反演			
17:20-17:40	刘帅	线下	Studying Stellar-mass Binary Black Holes with Space-borne Gravitational Wave Detectors			
17:40-17:50	张学昊	线下	Resolving Galactic binaries using a network of space-borne gravitational wave detectors			
7日	上午	10:30-10:50	胡彬	线上	Hubble parameter estimation via GW sirens with the LISA-Taiji network	胡一鸣
		10:50-11:10	郭怀珂	线上	The First Search for Cosmological First Order Phase Transitions using Data From the Third LIGO-Virgo Observing Run	
		11:10-11:30	陈一帆	线上	Supermassive black holes as detectors for ultralight bosons	
		11:30-11:50	黄发朋	线下	Anisotropy of phase transition gravitational wave and its implication for primordial seeds of the Universe	何建华
		11:50-12:10	Alejandro Torres Oriuela	线下	Detecting a constant center-of-mass velocity for gravitational wave sources	
		12:10-12:30	李博华	线下	Kination: Implications for Big Bang nucleosynthesis and the primordial Gravitational Waves	

分会报告 D（会议中心：湖滨B105竹音厅）

Gravitational aspects of string theory

Section D

Causal sets, causal dynamical triangulations, non-commutative geometry, asymptotic safety, and other approaches to quantum gravity
Quantum fields in curved space-time, semiclassical gravity, quantum gravity phenomenology, and analog models

腾讯会议ID：392-5748-4032

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日期	时间	报告人	报告方式	报告题目	主持人
4日 下午	14:30-14:50	刘 焱	线上	Holographic Weyl-Z2 semimetal	孙雅文 (线上)
	14:50-15:10	孙 源	线下	TTbar deformed matrix models and JT supergravity duals	
	15:10-15:20	付国杨	线下	A novel holographic quantum phase transition and butterfly velocity	
	15:20-15:30	夏传印	线下	Holographic Abrikosov lattice: Vortex Matter from Black Hole	
	15:30-15:40	赵 龙	线下	The universality of islands outside the horizon	
	15:40-15:50	李东奇	线下	Novel phase transition of Page curve for Gauss-Bonnet gravity	
	15:50-16:00	赵子强	线下	Quasinormal modes of a simple holographic superfluid model	
	16:00-16:30	茶歇			何松 (线上)
	16:30-16:50	苗荣欣	线上	Conformal Boundary Condition and New Brane Dynamics in AdS/BCFT	
	16:50-17:10	刘宇轩	线上	Black holes Entangled by Radiation	
	17:10-17:20	杨 鹏	线上	Parametric instability induced driven-dissipative time crystal phase of holographic superfluids in optical lattice	
	17:20-17:30	张宇轩	线下	Pseudo-entropy of locally excited states in 2d CFTs	
	17:30-17:40	刘志红	线下	Harvesting Entanglement by uniformly accelerated detectors	
	17:40-17:50	李 泽	线下	Upper bounds of holographic entanglement entropy growth rate for thermofield double states	
	17:50-18:00	方西浩	线下	Surface grow scheme in boundary CFT	

6日	下午	14:30-14:50	曾定方	线上	破解信息丢失疑难的新机制	刘焱 (线上)	
		14:50-15:00	林 威	线上	The Scattering of Dirac and Majorana Fermions in Spherically Symmetric Gravitational Field and Torsion Field		
		15:00-15:10	林乙裕	线上	The PEE aspects of entanglement islands from bit threads		
		15:10-15:30	程 鹏	线下	Scattering Hawking radiation and soft theorem in curved spacetime		
		15:30-15:40	陈 颖	线下	Entanglement generation for uniformly accelerated atoms assisted by environment induced interatomic interaction and the loss of the anti-Unruh effect		
		15:40-15:50	周跃兵	线下	Detecting the Unruh effect with entanglement		
		15:50-16:00	张 驰	线下	Probe gravity-induced entanglement between two massive microscopic particles in astrophysical process		
		16:00-16:30	茶歇				
		16:30-16:50	庞 毅	线上	α' -corrections to Near Extremal Dyonic Strings and Weak Gravity Conjecture	聂章宇	
		16:50-17:00	区敏妍	线上	黑洞和虫洞的回声		
17:00-17:10	刘倩倩	线上	近地时空背景下的量子照明策略				
17:10-17:30	许震明	线下	Fokker-Planck equation for black holes in thermal potential				
17:30-17:40	杨 毅	线下	Echoes of novel black-bounce spacetimes				
17:40-17:50	郭光洲	线下	Echoes from Hairy Black Holes				
17:50-18:00	刘 东	线下	Ringling of a black hole in a dark matter halo				
7日	上午	10:30-10:50	张海青	线上	Holographic topological defects in spatial 1D system	吴俊宝 (线上)	
		10:50-11:10	文 强	线上	Correction to entanglement wedge cross-section from the Chern-Simons term in TMG		
		11:10-11:30	彭 程	线上	Ensemble averages, factorization, and half-wormholes		
		11:30-11:50	徐 皓	线上	Interaction between particle detectors and QFT: perturbative and non-perturbative methods	吴绍锋 (线上)	
		11:50-12:00	曲乐琛	线上	Chaos and complexity for inverted harmonic oscillators		
		12:00-12:10	孙昊田	线上	Shear flows in far-from-equilibrium strongly coupled fluids		
		12:10-12:20	吕宏达	线上	Interior of helical black holes		
		12:20-12:30	王 东	线上	Holographic entanglement entropy and complexity for the excited states of holographic superconductors		