

The 27th Workshop on General Relativity and Gravitation in Japan

27(Mon) November - 1(Fri) December 2017

Kurara Hall, Saijo Higashi-hiroshima

TIME	MON	TUE	WED	THU	FRI				
9:30 - 9:45	Registration	Patric Brady (Univ. of Wisconsin-Milwaukee)	Nicola Bartolo (Padova Univ., INFN)	Robert R. Caldwell (Dartmouth Univ.)	Carlos Herdeiro (Aveiro Univ.)				
9:45 - 10:00									
10:00 - 10:15									
10:15 - 10:30									
10:30 - 10:45	Opening	Short poster talks(2/3)	Short poster talks(3/3)		Coffee break				
10:45 - 11:00	Vladimir Karas	Coffee break	Coffee break		session 8a				
11:00 - 11:15	(Astronomical Institute, Czech Academy of Sciences)	Parallel session 2a	Parallel session 2b	Parallel session 4a		Parallel session 4b	Parallel session 6a	Parallel session 6b	
11:15 - 11:30									Coffee break
11:30 - 11:45									
11:45 - 12:00	Short poster talks(1/3)							Presentation awards	
12:00 - 12:15								Closing	
12:15 - 12:30									
12:30 - 14:00	Lunch & poster view	Lunch & poster view	Lunch & poster view	Lunch & poster view					
14:00 - 14:15	Parallel session 1a	Parallel session 1b	Parallel session 3a	Parallel session 3b	Parallel session 5a	Parallel session 5b	Parallel session 7a	Parallel session 7b	
14:15 - 14:30									
14:30 - 14:45									
14:45 - 15:00									
15:00 - 15:15	Coffee break & poster view	Coffee break & poster view	Coffee break & poster view	Coffee break & poster view	Coffee break & poster view	Coffee break & poster view	Coffee break & poster view	Coffee break & poster view	
15:15 - 15:30									
15:30 - 15:45									
15:45 - 16:00									
16:00 - 16:15	Kenji Toma (Tohoku Univ.)	Takashi Nakamura (Kyoto Univ.)	Hideyuki Tagoshi (ICRR, Univ. of Tokyo)	Yasufumi Kojima (Hiroshima Univ.)	Masaki Shigemori (Queen Mary London, YITP)	Masaki Shigemori (Queen Mary London, YITP)	Masaki Shigemori (Queen Mary London, YITP)	Masaki Shigemori (Queen Mary London, YITP)	
16:15 - 16:30									
16:30 - 16:45									
16:45 - 17:00									
17:00 - 17:15	Diego Blas (CERN TH)	Koji Kawabata (Hiroshima Univ., HASC)	group photo	SOC meeting	SOC meeting	SOC meeting	SOC meeting	SOC meeting	
17:15 - 17:30									
17:30 - 17:45									
17:45 - 18:00									
18:00 - 20:00			Banquet						

The 27th Workshop on General Relativity and Gravitation in Japan

27(Mon) November - 1(Fri) December 2017

Kurara Hall, Saijo Higashi-hiroshima

November 27 (MON)

9:30 - Registration

10:30 - 10:45 Opening

10:45 - 11:45 (Chair Yasusada Nambu)

Vladimir Karas (Astronomical Institute, Academy of Sciences, Prague)

Structure of relativistic fluid tori near black holes: effects of self-gravity and electric charge

11:45 - 12:30 Short poster talks (1/3)

12:30 - 14:00 Lunch & poster view (2F room 202-203)

14:00 - 15:00 Parallel session 1a & 1b

Parallel session 1a (Small Hall)

(Chair Hideyuki Tagoshi)

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|-----|---------------|----------------------------------|--|
| 1a1 | 14:00 - 14:15 | Hajime Sotani (NAOJ) | Gravitational waves from protoneutron stars and asteroseismology |
| 1a2 | 14:15 - 14:30 | Nami Uchikata (ICRR U. of Tokyo) | Black hole ringdown analysis of two-mode signal |
| 1a3 | 14:30 - 14:45 | Tak Yamamoto (Kyoto U.) | Analysis of ringdown gravitational waveform by neural network |
| 1a4 | 14:45 - 15:00 | Remya Nair (Kyoto U.) | Synergy between ground and space-based GW interferometers |

Parallel session 1b (3F Salon Hall)

(Chair Ken-ichi Nakao)

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|-----|---------------|---|--|
| 1b1 | 14:00 - 14:15 | Satsuki Matsuno (Osaka City U.) | Black holes submerged in AdS |
| 1b2 | 14:15 - 14:30 | Jasel Berra Montiel (Universidad Autonoma de San Luis Potosi) | The loop representation of Quantum Gravity as a Deformation Quantization |
| 1b3 | 14:30 - 14:45 | Hayato Motohashi (YITP Kyoto U.) | Healthy degenerate theories with arbitrary higher-order derivatives |
| 1b4 | 14:45 - 15:00 | Aya Lyonaga (Rikkyo U.) | Degenerate higher-order multi-scalar-tensor theories |

15:00 - 16:00 Coffee & poster view (2F room 202 -203)

(Chair Motoyuki Saijo)

16:00 - 17:00 Kenji Toma (Tohoku U.)

Theoretical and Observational Studies on Relativistic Jets Driven by Black Holes

17:00 - 18:00 Diego T. Blas (CERN TH)

Testing gravitation with gravitational waves

November 28 (TUE)

(Chair Shinji Tsujikawa)

9:30 - 10:30 Patric Brady (Univ. of Wisconsin-Milwaukee)

When neutron stars collide

10:30 - 10:45 Short poster talks (2/3)

10:45 - 11:00 Coffee

11:00 - 12:30 Parallel session 2a & 2b

Parallel session 2a (Small Hall)

(Chair Yasufumi Kojima)

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|-----|---------------|-----------------------|--|
| 2a1 | 11:00 - 11:15 | Kei Yamada (Kyoto U.) | BH perturbations & gauge dof in the near-horizon limit |
|-----|---------------|-----------------------|--|

2a2	11:15 - 11:30	Toshiaki Ono (Hirosaki U.)	Gravitomagnetic bending angle of light in stationary axisymmetric spacetimes 1: Formulation
2a3	11:30 - 11:45	Asahi Ishihara (Hirosaki U.)	Gravitomagnetic bending angle of light in stationary axisymmetric spacetimes 2: Application
2a4	11:45 - 12:00	Anton Khirnov (Charles U.)	A new slicing condition for axisymmetric gravitational wave collapse
2a5	12:00 - 12:15	Motoyuki Saijo (Waseda U.)	Dynamics of relativistic r-mode instability in rotating relativistic stars
2a6	12:15 - 12:30	Fabio Novaes (UFRN)	Kerr-de Sitter Quasinormal Modes from Accessory Parameter Expansions

Parallel session 2b (3F Salon Hall)
(Chair Shinji Mukohyama)

2b1	11:00 - 11:15	Anzhong Wang (Baylor U.)	Pre-inflationary universe in loop quantum cosmology
2b2	11:15 - 11:30	Kazufumi Takahashi (RESCEU U. of Tokyo)	Extended mimetic gravity: Hamiltonian analysis and gradient instabilities
2b3	11:30 - 11:45	Shingo Akama (Rikkyo U.)	The effect of the spatial curvature in the early universe in the Horndeski theory and beyond Horndeski theory
2b4	11:45 - 12:00	Rampey Kimura (Tokyo Institute of Technology)	Are redshift-space distortions actually a probe of growth of structure?
2b5	12:00 - 12:15	Shin'ichi Hirano (Rikkyo U.)	Matter bispectrum in GLPV theory
2b6	12:15 - 12:30	Shun Arai (Nagoya U.)	Constraints on Horndeski theory with Gravitational Waves observations

12:30 - 14:00 Lunch & poster view

14:00 - 15:45 Parallel session 3a & 3b

Parallel session 3a (Small Hall)
(Chair Hideki Asada)

3a1	14:00 - 14:15	Tomohiro Harada (Rikkyo U.)	Spins of primordial black holes formed in the matter-dominated era
3a2	14:15 - 14:30	Menglei Zhou (Fudan U.)	Iron $K\alpha$ line of Kerr black holes with Proca hair
3a3	14:30 - 14:45	Atsushi Nishizawa (Nagoya U.)	Cross-correlating GW and galaxies to identify the host galaxies of binary black holes
3a4	14:45 - 15:00	Tatsuya Narikawa (ICRR U. of Tokyo)	Constraining bimetric gravity by gravitational wave events from compact binary coalescences
3a5	15:00 - 15:15	Naoki Tsukamoto (Huazhong U. of Science and Technology)	A simple strong deflection limit analysis in a general asymptotically flat, static, spherically symmetric spacetime
3a6	15:15 - 15:30	Chulmoon Yoo (Nagoya U.)	PBH abundance from the random Gaussian curvature perturbation and a local density threshold
3a7	15:30 - 15:45	Keisuke Inomata (ICRR U. of Tokyo)	$O(10)M_{\text{solar}}$ primordial black holes and string axion dark matter

Parallel session 3b (3F Salon Hall)
(Chair Hideo Kodama)

3b1	14:00 - 14:15	Yota Watanabe (Kavli IPMU, YITP)	Stable cosmology in chameleonic bigravity
3b2	14:15 - 14:30	Michele Oliosi (YITP Kyoto U.)	Horndeski extension of the minimal theory of quasidilaton massive gravity
3b3	14:30 - 14:45	Alberto Molgado (Universidad Autonoma de San Luis Potosi)	MacDowell-Mansouri gravity model from a covariant polysymplectic perspective
3b4	14:45 - 15:00	Mai Yashiki (Yamaguchi U.)	Observational test of the unified model in inflation and dark energy in $f(R)$ gravity
3b5	15:00 - 15:15	Shuntaro Mizuno (YITP Kyoto U.)	Primordial perturbations from hyperinflation
3b6	15:15 - 15:30	Vincenzo Vitagliano (Keio U.)	Covariantly Quantum Field Theory
3b7	15:30 - 15:45	Shintaro Nakamura (Tokyo U. of Science)	Cosmology in beyond-generalized Proca theories

15:45 - 16:45 Coffee & poster view

(Chair Kentaro Takami)

16:45 - 17:15 Takashi Nakamura (Kyoto Univ.)

New development in astrophysics through multimessenger observations of gravitational waves from 2012 to 2017

17:15 - 17:45 Koji Kawabata (Hiroshima Univ., HASC)

J-GEM Follow-up Observations for gravitational wave events and GW170817

November 29 (WED)

(Chair Masaaki Takahashi)

9:30 - 10:30 Nicola Bartolo (Padova Univ, INFN)

Inflation: current status and future prospects

10:30 - 10:45 Short poster talks (3/3)

10:45 - 11:00 Coffee

11:00 - 12:30 Parallel session 4a & 4b

Parallel session 4a (Small Hall)

(Chair Takeshi Chiba)

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|-----|---------------|---------------------------------|--|
| 4a1 | 11:00 - 11:15 | Yuki Sakakihara (Osaka City U.) | Dynamics in $f(R)$ gravity with bounded curvature |
| 4a2 | 11:15 - 11:30 | Ryuichi Fujita (YITP Kyoto U.) | Gravitational waves from a particle orbiting a Kerr black hole in Brans-Dicke theory |
| 4a3 | 11:30 - 11:45 | Ippe Obata (Kyoto U.) | Primordial GWs sourced by gauge field |
| 4a4 | 11:45 - 12:00 | Tomohiro Fujita (Kyoto U.) | Statistically Anisotropic Primordial Gravitational Waves from Gauge Field |
| 4a5 | 12:00 - 12:15 | Daisuke Yoshida (Kobe U.) | Exploring the string axiverse and parity violation in gravity with gravitational waves |
| 4a6 | 12:15 - 12:30 | Takashi Hiramatsu (Rikkyo U.) | Reconstruction of primordial tensor power spectrum from B-mode observations |

Parallel session 4b (3F Salon Hall)

(Chair Hideki Ishihara)

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|-----|---------------|--|---|
| 4b1 | 11:00 - 11:15 | Kentaro Tomoda (Kobe U.) | Curvature obstructions to the existence of isometries |
| 4b2 | 11:15 - 11:30 | Masashi Kimura (Instituto Superior Tecnico, U.of Lisbon) | A simple test for stability of black hole by S-deformation |
| 4b3 | 11:30 - 11:45 | Yoshimune Tomikawa (Matsuyama U.) | On uniqueness of static spacetimes with non-trivial conformal scalar field |
| 4b4 | 11:45 - 12:00 | Makoto Nakamura (Yamagata U.) | On the Cauchy problem for semi-linear Klein-Gordon equations in de Sitter spacetime |
| 4b5 | 12:00 - 12:15 | Taishi Ikeda (Nagoya U.) | Dyson bound of energy flux in gravitational collapse |
| 4b6 | 12:15 - 12:30 | Pedro Cunha (Aveiro U. & IST Lisbon) | Light ring stability in ultra-compact objects |

12:30 - 14:00 Lunch & poster view

14:00 - 15:15 Parallel session 5a & 5b

Parallel session 5a (Small Hall)

(Chair Takahiro Tanaka)

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|-----|---------------|-------------------------------------|--|
| 5a1 | 14:00 - 14:15 | Ryo Kato (Kobe U.) | Constraint on the axion dark matter using pulsar timing arrays |
| 5a2 | 14:15 - 14:30 | Emi Masaki (Kobe U.) | Can gravitons be converted into dark photons? |
| 5a3 | 14:30 - 14:45 | Arata Aoki (Kobe U.) | Structure formation with fuzzy dark matter |
| 5a4 | 14:45 - 15:00 | Soichiro Morisaki (RESCEU U. Tokyo) | Search for non-minimally coupled scalar field dark matter with gravitational-wave observations |
| 5a5 | 15:00 - 15:15 | Osamu Seto (Hokkaido U.) | Non-minimally coupled Coleman-Weinberg inflation |

Parallel session 5b (3F Salon Hall)

(Chair Tomohiro Harada)

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|-----|---------------|--|---|
| 5b1 | 14:00 - 14:15 | Masato Minamitsuji (CENTRA, IST, U. of Lisbon) | Boson stars in a generalized Proca theory |
| 5b2 | 14:15 - 14:30 | Kota Ogasawara (Rikkyo U.) | Collision of two shells with a high center-of-mass energy in the Banados-Teitelboim-Zanelli spacetime |
| 5b3 | 14:30 - 14:45 | Tatsuya Ogawa (Osaka City U.) | Charge screened non-topological solitons |
| 5b4 | 14:45 - 15:00 | Takayuki Ohgami (Yamaguchi U.) | Optical Images of Gravasta Surrounded by dust |
| 5b5 | 15:00 - 15:15 | Tetu Makino (Yamaguchi U.) | Mathematical study of rotating gaseous stars |

15:15 - 16:15 Coffee & poster view

(Chair Takashi Nakamura)

16:15 - 17:00 Hideyuki Tagoshi (ICRR Univ. of Tokyo)

Status and prospect of KAGRA

17:00 - 17:45 Yasufumi Kojima (Hiroshima Univ.)

Slow rotation in GR

group photo

18:00 - 20:00 Banquet (2F Restaurant)

November 30 (THU)

(Chair Misao Sasaki)

10:00 - 11:00 Robert R. Caldwell (Dartmouth Univ.)

A unique and observable prediction in a toy model of axion gauge field inflation

11:00 - 11:15 Coffee

11:15 - 12:30 Parallel session 6a & 6b

Parallel session 6a (Small Hall)

(Chair Kei-ichi Maeda)

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|-----|---------------|-------------------------------------|--|
| 6a1 | 11:15 - 11:30 | Junsei Tokuda (Kyoto U.) | Theoretical consistency of stochastic approach |
| 6a2 | 11:30 - 11:45 | Seiga Sato (Waseda U.) | Hybrid Higgs Inflation |
| 6a3 | 11:45 - 12:00 | Kazuhiro Kogai (Nagoya U.) | Exploring primordial anisotropic non-Gaussianity from galaxy alignment |
| 6a4 | 12:00 - 12:15 | Sakine Nishi (Rikkyo U.) | Anisotropic inflation in Horndeski theory |
| 6a5 | 12:15 - 12:30 | Hiroaki Tahara (RESCEU U. of Tokyo) | Perturbations in the anisotropic attractor with Horndeski theory |

Parallel session 6b (3F Salon Hall)

(Chair Akihiro Ishibashi)

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|-----|---------------|---|--|
| 6b1 | 11:15 - 11:30 | Naritaka Oshita (RESCEU U. Tokyo) | Probing atoms of spacetime with ringdown gravitational waves from a perturbed black hole |
| 6b2 | 11:30 - 11:45 | Antonino Flachi (Keio U.) | Topological currents and black holes |
| 6b3 | 11:45 - 12:00 | Kunihito Uzawa (Kwansei Gakuin U.) | Supersymmetry breaking and singularity in dynamical brane backgrounds |
| 6b4 | 12:00 - 12:15 | Umpei Miyamoto (Akita Prefectural U.) | Nonlinear perturbation of black branes at large D |
| 6b5 | 12:15 - 12:30 | Gon_alo Quinta (Superior Technical Institute, U. of Lisbon) | Vacuum polarization around a charged black hole in 5 dimensions |

12:30 - 14:00 Lunch & poster view

14:00 - 15:45 Parallel session 7a & 7b

Parallel session 7a (Small Hall)

(Chair Jiro Soda)

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|-----|---------------|--|---|
| 7a1 | 14:00 - 14:15 | Tomoya Kinugawa (ICRR U. of Tokyo) | Gravitational waves from remnants of first stars |
| 7a2 | 14:15 - 14:30 | Asuka Ito (Kobe U.) | Primordial gravitational waves and early universes |
| 7a3 | 14:30 - 14:45 | Yi-Peng Wu (RESCEU U. of Tokyo) | Inflationary fluctuations with phase transitions |
| 7a4 | 14:45 - 15:00 | Minxi He (RESCEU U. of Tokyo) | Higgs- R^2 Inflation |
| 7a5 | 15:00 - 15:15 | Kiyomi Hasegawa (Hirosaki U.) | A possible solution to the Hubble (non-)constant problem |
| 7a6 | 15:15 - 15:30 | Atsuhisa Ota (Tokyo Institute of Technology) | Spontaneous symmetry breaking in open systems: Toward application to EFT of inflation |

Parallel session 7b (3F Salon Hall)

(Chair Tetsuya Shiromizu)

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|-----|---------------|---|--|
| 7b1 | 14:00 - 14:15 | Alex Vano-Vinuales (Cardiff U.) | Free hyperboloidal evolution in spherical symmetry |
| 7b2 | 14:15 - 14:30 | Takafumi Kokubu (KEK) | Example of Null junction conditions: Energy emission from a naked singularity |
| 7b3 | 14:30 - 14:45 | Shinpei Kobayashi (Tokyo Gakugei U.) | Fuzzy spacetime in noncommutative gravity |
| 7b4 | 14:45 - 15:00 | Ren Tsuda (Ibaraki U.) | Expanding Polyhedral Universe in Regge Calculus |
| 7b5 | 15:00 - 15:15 | Leon Escobar Diaz (University of Tübingen, Germany) | Asymptotics of solutions of a hyperbolic formulation of the constraint equations |
| 7b6 | 15:15 - 15:30 | Akira Matsumura (Nagoya U.) | Large Scale Quantum Entanglement in de Sitter Spacetime |

15:45 - 16:45 Coffee & poster view

(Chair Yuko Urakawa)

16:45 - 17:45 Masaki Shigemori (Queen Mary London, YITP)

The Black-Hole Microstate Program

December 1 (FRI)

(Chair Tsutomu Kobayashi)

9:30 - 10:30 Carlos Herdeiro (Aveiro Univ.)

Kerr black holes with bosonic hair: theory and phenomenology

10:30 - 10:45 Coffee

10:45 - 11:45 Session 8a

Session 8a (Small Hall)

(Chair Hisaaki Shinkai)

- 8a1 10:45 - 11:00 Yuko Urakawa (Nagoya U.) Cosmological imprints of string axions in plateau
- 8a2 11:00 - 11:15 Hiromi Saida (Daido U.) Exploring GR effects of super-massive BH at our galactic center
- 8a3 11:15 - 11:30 Kenji Tomita (YITP Kyoto U.) Cosmological models with the energy density of random fluctuations and the Hubble-constant problem
- 8a4 11:30 - 11:45 Marcus Werner (YITP Kyoto U.) Constructing predictive gravity theories
- 11:45 - 12:00 Presentation Awards
- 12:00 - Closing (Kei-ichi Maeda)

Poster Session

- P01 Kiyoshi Shiraishi (Yamaguchi U.) Large Boson Stars
- P02 Tomotaka Suzuki (Hokkaido U.) Study of the AdS₂ / CFT₁ correspondence with the contribution from the Weyl anomaly
- P03 Keitarou Nanri (Yamaguchi U.) Microlensing effect and shadows of massless braneworld black holes
- P04 Keisuke Nakashi (Tokyogakugei U.) Geodesics and repulsive gravity in BHT massive gravity
- P05 Daisuke Nitta (Nagoya U.) Equivalence principle violation after reheating
- P06 Takuma Tsukamoto (Nagoya U.) Sequestering Mechanism in Scalar-Tensor Theory
- P07 Shun Yamamoto (Osaka Institute of Technology) Analysis of ringdown waveform using Auto-Regressive model
- P08 Yingli Zhang (Tokyo U. of Science) Oscillations of Power Spectrum from non-minimal coupling scalar fields of R² inflation
- P09 Kouji Nakamura (NAOJ) Double balanced homodyne detection
- P10 Yushi Kawamoto (Yamaguchi U.) f(R) inflation
- P11 Masashi Kuniyasu (Yamaguchi U.) Boson stars in DBI type k-field theories
- P12 Suro Kim (Kobe U.) Toward dissipative and stochastic effects in the EFT of inflation
- P13 Tomohiro Nakamura (Nagoya U.) Chameleon mechanism in inhomogeneous density profile
- P14 Teerthal Patel (Nagoya U.) Magnetogenesis in Axion Monodromy Inflation
- P15 Yuya Nakamura (Hirosaki U.) Weakly self-gravitating objects in Chern-Simons modified gravity
- P16 Tsuyoshi Houri (Kyoto U.) Hidden symmetries of the Jacobi equation
- P17 Adrian-Ciprian Sporea (West U. of Timisoara) Higher dimensional SdS black holes: fermionic Hawking radiation
- P18 Kazuho Hiraga (Ibaraki U.) Inflationary cosmology in M-theory
- P19 Eliska Polaskova (Charles U., Prague) Quasilocal horizons in inhomogeneous cosmological models
- P20 Yoshiyuki Morisawa (Osaka City U.) Cohomogeneity-one-string integrability
- P21 Daisuke Yamauchi (Kanagawa U.) Y-junction intercommutations of current carrying strings
- P22 Masataka Tsuchiya (Nagoya U.) Chaotic Motion of a Cohomogeneity-One String in Extremal Kerr Spacetime
- P23 Tomoro Tokusumi (Nagoya U.) Qubit Model of Hawking Radiation
- P24 Kosei Morimoto (Hirosaki U.) An inhomogeneous cosmology with Lambda where Omega_m and Omega_{Lambda} depend on each observed domain
- P25 Hirotaka Yoshino (Osaka City U.) Axion Bosenova and Gravitational Waves
- P26 Yosuke Misonoh (Waseda U.) Imitating equation of motion with deep learning
- P27 Kazushige Ueda (Hiroshima U.) Entanglement of the Vacuum between Left, Right, Future, and Past
- P28 Masaaki Takahashi (Aichi U. of Education) Jet-Disk structure in a Black hole Magnetosphere
- P29 Hiroki Sakamoto (Hiroshima U.) Attractor behavior of CMB fluctuations in gauged Nambu-Jona-Lasinio inflation

P30	Hisaaki Shinkai (Osaka Institute of Technology)	Event rates of gravitational waves in space-borne detectors based on a hierarchical growth model of SMBHs
P31	Norihiro Tanahashi (Kyushu U.)	Robinson-Trautman solutions with a scalar field
P32	Masashi Yamazaki (Nagoya U.)	Vainshtein mechanism in non-minimal dRGT massive gravity
P33	Shinya Tomizawa (Tokyo U. of Technology)	Asymptotically Flat Rotating Black Lens in Five Dimensions
P34	Toshifumi Noumi (Kobe U.)	Weak Gravity Conjecture and Infrared Consistency
P35	Ryo Saito (Yamaguchi U.)	Effective theories for the partial breaking of the Vainshtein mechanism
P36	Kentaro Takami (Kobe City College of Technology)	Neutron-star Radius from a Population of Binary Neutron Star Mergers
P37	Ulbossyn Ualikhanova (U. of Tartu)	Dynamical systems approach and generic properties of $f(T)$ cosmology
P38	Siyi Zhou	Fluctuations through a Vibrating Bounce
P39	Marcello Rotondo (Nagoya U.)	Interferometry in superspace: decoherence of histories due to gravitational particle creation
P40	Ryotaku Suzuki (Osaka City U.)	Large D Effective Theory of General Relativity

The poster contributors are assigned to one-minute short talk. Only those who will participate from the 2nd or 3rd day are assigned on Tuesday or Wednesday. We expect that almost speakers give one-minute talk on the first day, however, if you cannot, please tell us which day you like to give your talk. Please prepare a (hopefully) 1-page pdf file for your presentation, and send it by e-mail to jgrg27-loc@ml.hiroshima-u.ac.jp, at least 24 hours in advance.