

# RESCEU SYMPOSIUM ON GENERAL RELATIVITY AND GRAVITATION

## JGRG22

November 12–16 2012

Koshiba Hall, The University of Tokyo, Hongo, Tokyo, Japan

	Monday 12	Tuesday 13	Wednesday 14	Thursday 15	Friday 16
9:00	Registration	Plenary	Plenary	Plenary	Plenary
10:00	Plenary	Coffee	Coffee	Coffee	Coffee
11:00		Plenary	Plenary	Plenary	Plenary
12:00	Lunch	Lunch	Lunch	Group photo and lunch	
13:00					
14:00	Parallel	Plenary	Parallel	Plenary	
15:00	Coffee		Coffee		
16:00					
17:00	Parallel	Poster&Beers	Parallel	Onsen(Hot springs and social hour)	
18:00	Reception			Banquet	
19:00					
20:00					
21:00					

## Monday, November 12

- 9:00 Registration
- 10:00 Opening  
Welcome address by Prof. H. Aihara, Dean of School of Science  
(Chair: Masahiro Kawasaki)
- 10:15 Abhey Ashtekar  
[The pre-inflationary dynamics of loop quantum cosmology:](#)  
[Confronting quantum gravity with observations](#)
- 11:00 Shinji Mukohyama (IPMU, The University of Tokyo)  
[Nonlinear massive gravity and cosmology](#)
- 11:45 Mihoko Nojiri (KEK)  
[The Standar Model and beyond after LHC at 8 TeV](#)
- 12:30 Lunch
- 14:00 Parallel Sessions
- 18:30 Reception at the Sanjo Conference Hall

## Tuesday, November 13

(Chair: Shinji Mukohyama)

- 9:00 Andrei Frolov (Simon Fraser University)  
[Primordial non-Gaussianity from preheating](#)
- 9:45 Jinn-Ouk Gong (Asia-Pacific Center for Theoretical Physics)  
[Towards more precise estimates of the primordial bispectrum](#)
- 10:30 Break  
(Chair: Yasufumi Kojima)
- 11:00 Teruaki Suyama (RESCEU, The University of Tokyo)  
[Testing the origin of primordial perturbation: Use of bi- and tri-spectrum](#)
- 11:45 Matthias Bartelmann (University of Heidelberg)  
[Recent developments in gravitational lensing](#)
- 12:30 Lunch  
(Chair: Teruaki Suyama)
- 14:00 Ryo Tsutsui (RESCEU, The University of Tokyo)  
[Measuring distance with gamma-ray bursts](#)
- 14:30 Yousuke Itoh (RESCEU, The University of Tokyo)  
[Stacking of cluster profiles](#)
- 15:00 Kent Yagi (Montana State University)  
[Black Hole Solution and Binary Gravitational Waves in Dynamical Chern-Simons Gravity](#)
- 15:30 Yongmin Cho (Konkuk University)  
Restricted Gravity and Abelian Dominance in Einstein's Theory
- 16:00 Hideki Maeda (Centro de Estudios Científicos)  
[Gauss-Bonnet braneworld redux: A novel scenario for the bouncing universe](#)
- 16:30 Poster and beer
- 19:00 End

## Wednesday, November 14

(Chair: Nobuyuki Kanda)

- 9:00 Hideyuki Tagoshi (Osaka University)  
[Search for gravitational wave events with KAGRA and the world-wide network of laser interferometers in the advanced detector era](#)
- 9:45 Takaaki Kajita (ICRR, The University of Tokyo)  
[Status of KAGRA](#)
- 10:30 Break  
(Chair: Seiji Kawamura)
- 11:00 Francesco Fidecaro (University of Pisa)  
[Virgo: design, results and perspectives](#)

- 11:45 David Reitze (LIGO Laboratory, California Institute of Technology)  
[LIGO: Recent Results, Plans, and Prospects](#)
- 12:30 Lunch
- 14:00 Parallel Sessions
- 18:10 End

## Thursday, November 15

- (Chair: Hideki Asada)
- 9:00 Jerome Martin (Institut d'Astrophysique de Paris & RESCEU)  
[The cosmological constant problem](#)
- 9:45 Masahiro Takada (IPMU, The University of Tokyo)  
[SuMIRe project: Hyper Suprime-Cam \(HSC\) and Prime](#)  
[Focus Spectrograph \(PFS\)](#)
- 10:30 Break  
(Chair: Hideyuki Tagoshi)
- 11:00 Luc Blanchet (Institut d'Astrophysique de Paris)  
[The first law of binary black hole dynamics](#)
- 11:45 Group photo and lunch
- (Chair: Naoshi Sugiyama)
- 13:30 Hideo Kodama (IPNS, KEK)  
[Charmed by spacetime physics -- from four to higher dimensions](#)
- 14:15 Misao Sasaki (YITP, Kyoto University)  
[A few thoughts on gravity and cosmology](#)
- 15:00 Toshifumi Futamase (Tohoku University)  
[GR in the observational cosmology](#)
- Self-service excursion to Ooedo Onsen Monogatari in Odaiba  
(A free shuttle bus for participants from abroad leaves at 16:15.)  
(次頁の日本人参加者への注を参照)
- 17:00 Onsen (Hot springs and social hour)
- 18:30 Banquet at NAKAMURA-ZA

# Friday, November 16

(Chair: Masaru Shibata)

- 9:00 Yuichiro Sekiguchi (YITP, Kyoto University)  
[Gravitational-wave and neutrino emissions from black hole-neutron star binary merger](#)
- 9:45 Roman Konoplya (DAMTP, University of Cambridge)  
[Stability of black holes: summary of some results for the past 10 years](#)
- 10:30 Break  
(Chair: Takahiro Tanaka)
- 11:00 Jaume Garriga (Universitat de Barcelona)  
[Vacuum transitions and the arrow of time](#)
- 11:45 Alexei Starobinsky (Landau Institute & RESCEU)  
[Duration and decay branching ratios of stochastic inflation](#)
- 12:30 Kei-ichi Maeda (Waseda University)  
[Conclusion](#)
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## 日本人参加者への注

シャトルバス利用者以外の方は各自移動してください。本郷三丁目駅(東京メトロ丸の内線)→銀座駅(東京メトロ銀座線に乗換)→新橋駅(ゆりかもめに乗換)→テレコムセンター駅下車徒歩2分で大江戸温泉物語に到着できます。

大江戸温泉物語に到着後、フロントの人にJGRG22の参加者である旨を伝え、名札を見せて名前を登録してください。そして通行手形(かぎ)を受け取ってください。建物の中での買い物・飲食はすべて通行手形で行います。(チェックアウト時に清算)

**バンケット飲食代、入浴代はすでに支払われております。それ以外の個人的な買い物・飲食等は、含まれておりませんので、自己負担をお願いいたします。**

バンケット会場は中村座です。18:30にバンケットを開始します。

バンケット終了後も、建物内で買い物・温泉等を楽しんでいただけます。ただし、午前2