Closing Remarks of JGRG33

The 33rd workshop of General Relativity and Gravitation in Japan

8 invited talks 104 contribution talks 42 poster presentations

236 participants 180 conference dinner discussions

LOC

Kaiki Taro Inoue, Akihiro Ishibashi, Satoshi Matsumoto, Yoshinori Matsuo **Osaka Inst. Tech. 大阪工業大学** Masato Nozawa, Hisa-aki Shinkai, Takashi Torii **Osaka Metro U. 大阪公立大学** Yosuke Itoh, Yoshiyuki Morisawa, Ken-ichi Nakao, Kodai Ueda, Hirotaka Yoshino

Kindai U. 近畿大学

Hisaaki Shinkai (OIT) 真貝寿明(大阪工業大学)



List of Sake at Conference Dinner



Hirotaka Yoshino



Masato Nozawa

- 花陽浴(はなあび、Hanaabi)
 by 南陽醸造 埼玉県羽生市 (Nan'yo Jozo, Saitama)
- 鳳凰美田(ほうおうびでん、Houou Biden)
 by 小林酒造 栃木県日光市 (Kobayashi Shuzo, Tochigi)
- 大倉(おおくら, Ookura)
 by 大倉本家 奈良県香芝市 (Ookura Honke, Nara)
- 一歩己(いぶき,Ibuki) by 豊国酒造 福島県石川郡(Toyokuni Shuzou,Fukushima)
- 篠峯(しのみね, Shinomine)
 by 千代酒造 奈良県御所市 (Chiyo Shuzou, Nara)
- 大那(だいな, Daina)
 by 菊の里酒造 栃木県大田原市 (KikunoSato Shuzou, Tochigi)
- 残草蓬莱(ざるそうほうらい、ZaruSou HouRai)
 by 大矢孝酒造 神奈川県愛甲郡 (OyatakashiShuzou、Kanagawa)
- 純青(じゅんせい, Jun'Sei)
 by 富久錦 兵庫県加西市 (Fukunishiki, Hyogo)
- 黒牛(くろうし, Kuro Ushi)
 by 名手酒造 和歌山県海南市 (Nate Shuzou, Wakayama)
- 加賀鳶(かがとび、Kaga Tobi)
 by 福光屋 石川県金沢市 (Fukumitsuya, Ishikawa)
- 誠鏡(せいきょう,Seikyou) by 中尾醸造 広島県竹原市 (Nakao Jozo,Hiroshima)

Brief History of JGRG

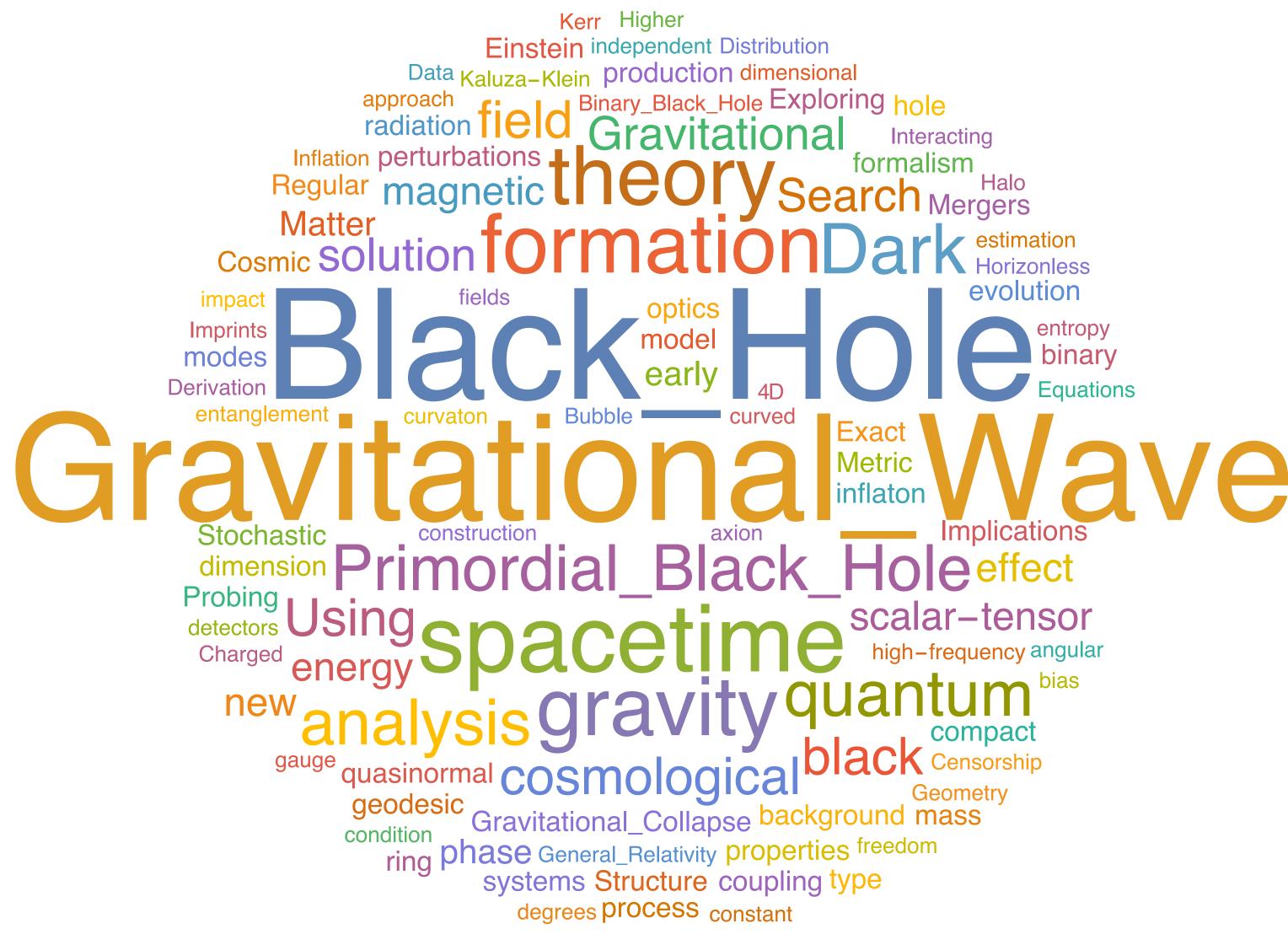
https://www-tap.scphys.kyoto-u.ac.jp/jgrg/index.html

3 days, 44 presentations

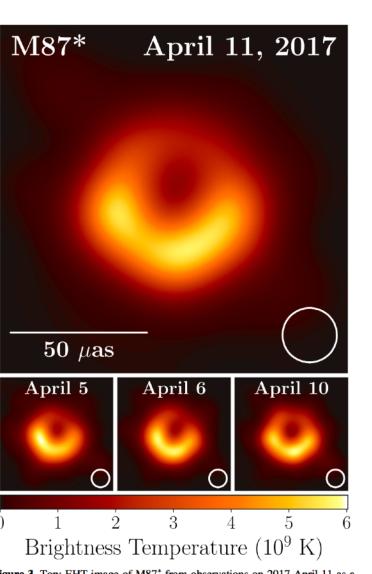
JGRG1	Tokyo Metropolitan University	(4th Dec - 6th Dec 1991)	JGRG21	Tohoku University	(26th S
JGRG2	Waseda University	(18th Jan -20th Jan 1993)	JGRG22	The University of Tokyo	(12-16t
JGRG3	The University of Tokyo	(17th Jan - 20th Jan 1994)	JGRG23	Hirosaki University	(5-8th N
JGRG4	YITP, Kyoto University	(28th Nov - 1st Dec 1994)	JGRG24	IPMU, The University of Tokyo	(10-14t
JGRG5	Nagoya University	(22nd Jan-25th Jan 1996)	JGRG25	YITP, Kyoto University	(7th-11
JGRG6	Tokyo Institute of Technology	(2nd Dec - 5th Dec 1996)	JGRG26	Osaka City University	(24-28t
JGRG7	YITP, Kyoto University	(27th Oct - 30th Oct 1997)	JGRG27	Hiroshima University	(27th N
JGRG8	Niigata University	(19th Oct - 22nd Oct 1998)	JGRG28	Rikkyo University	(5-9th N
JGRG9	Hiroshima University	(3rd Nov - 6th Nov 1999)	JGRG29	Kobe University	(25-29t
JGRG10	Osaka University	(11th Sep - 14th Sep 2000)	JGRG30	online/Waseda University	(6-10th
JGRG11	Waseda University	(9th Jan - 12th Jan 2002)	JGRG31	The University of Tokyo	(24-28t
JGRG12	Komaba, The University of Tokyo(25th Nov - 28th Nov 2002)		JGRG32	Nagoya University	(27th N
JGRG13	Osaka City University	(1st Dec - 4th Dec 2003)	JGRG33	Kindai University	(2th - 6
JGRG14	YITP, Kyoto University	(29th Nov - 3rd Dec 2004)			
JGRG15	Tokyo Institute of Technology	(28th Nov - 2rd Dec 2005)	5 da	ys, 154 presentations, wo	rld-wid
JGRG16	Niigata Prefectural Center	(27th Nov - 1st Dec 2006)			
JGRG17	Nagoya University	(3rd Dec - 7th Dec 2007)			
JGRG18	Hiroshima University	(17th-21st Nov 2008)			
JGRG19	Rikkyo University	(30th Nov -4th Dec 2009)			
JGRG20	YITP, Kyoto University	(21st Sep -25th Sep 2010)			

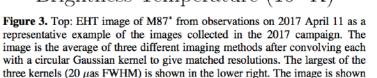
Sep -29th Sep 2011) 6th Nov 2012) Nov 2013) 4th Nov 2014) 1th Dec 2015) 8th Oct 2016) Nov - 1st Dec 2017) Nov 2018) 9th Nov 2019) th Dec 2021) 8th Oct 2022) Nov-1st Dec 2023) 6th Dec 2024)

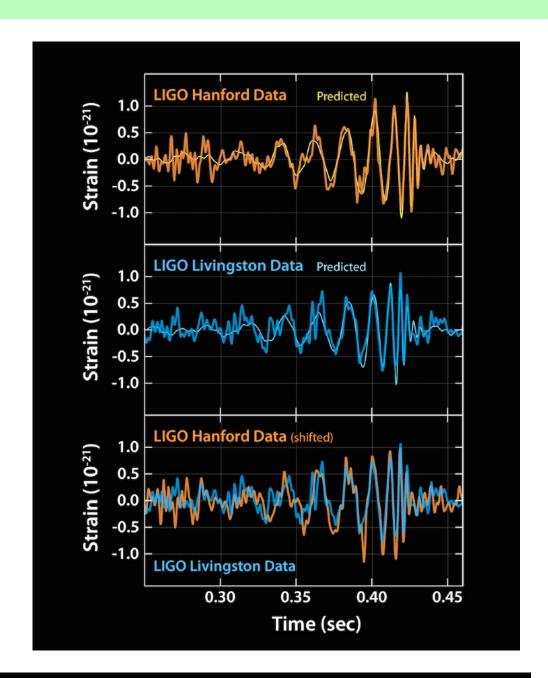
Our favorite words 2024

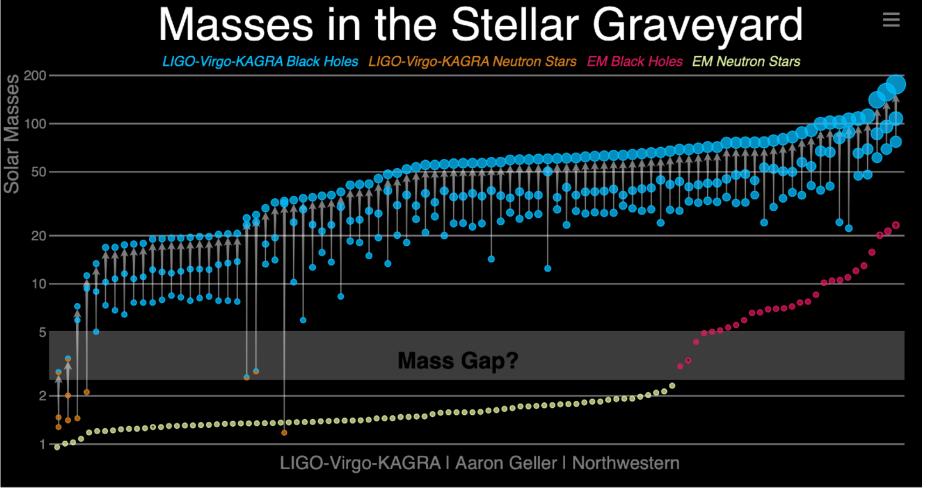


from all presentation titles: WordCloud by Mathematica









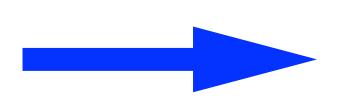
Science of S, Science of Y

physics 物理 mathematics 数学 statistics 統計学 genetics 遺伝学 astronomy 天文学 economy 経済学 biology 生物学 archaeology 考古学 anthropology 人類学 sociology 社会学

Synthesize Explain systematically

Discovery
Classify, Categorize

General Relativity



Black Hole
Expanding Universe
Gravitational Wave

Year 2025







100 years of quantum is just the beginning...

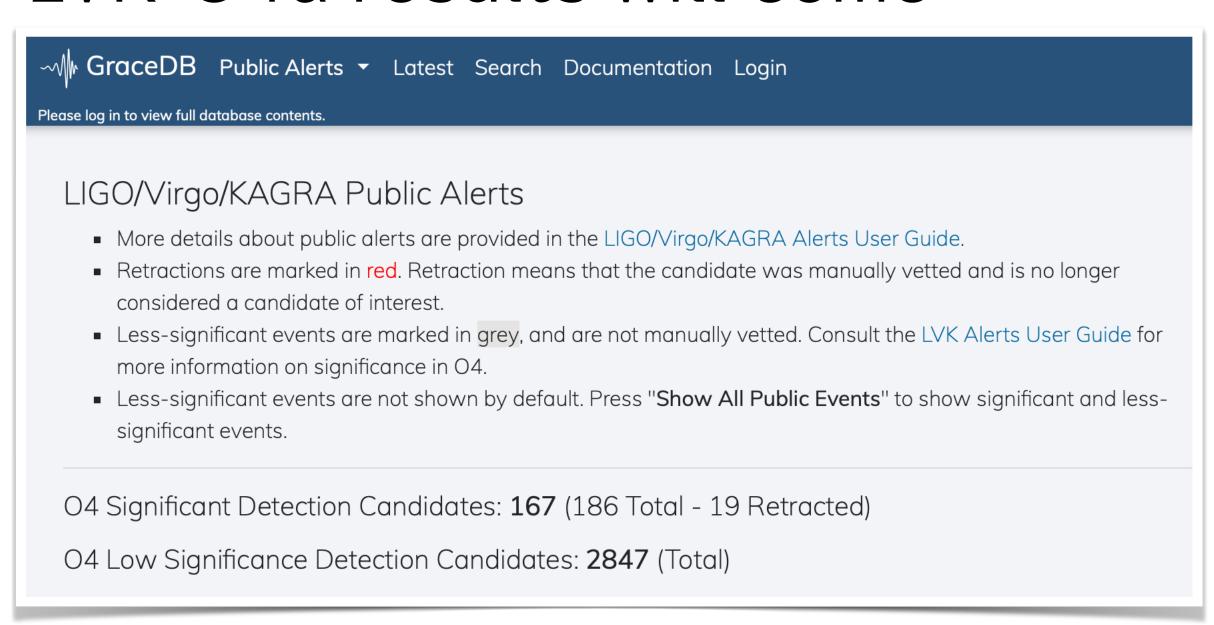
On June 7, 2024, the United Nations proclaimed 2025 as the International Year of Quantum Science and Technology (IYQ). According to the proclamation, this year-long, worldwide initiative will "be observed through activities at all levels aimed at increasing public awareness of the importance of quantum science and applications."

https://quantum2025.org/en/



A decade from GW150914

LVK-04a results will come



https://gracedb.ligo.org/superevents/public/O4/?page=13&showall=0

GW astronomy

JGRG33 @Kindai U. Dec. 2024



Special Thanks to

LOC of JGRG32 Nagoya group

Financial Supports from

- Kindai University (host)
 Akihiro Ishibashi
- Osaka Metropolitan University (co-host) Hirotaka Yoshino
- Osaka Institute of Technology (co-host) Masato Nozawa
- ■Grant-in-Aid for Transformative Research Areas(A) "Black Holes and Singularities from Quantum Information 21H05186" Akihiro Ishibashi
- ■Grant-in-Aid for Transformative Research Areas(A) "Gravitation and cosmology: principles and applications based on quantum information 21H05189"

 Tetsuya Shiromizu, Keisuke Izumi, Hirotaka Yoshino

Admin Staff

LOC

Kindai U.

Ms. Kiyoe Yokota

Student Staff

Tanaka, Makino, Matsuno, K. Matsuo, Onishi, Yamazaki, K. Tanaka, Hayashi, Shimomura

Kaiki Taro Inoue, Akihiro Ishibashi, Satoshi Matsumoto, Yoshinori Matsuo

Osaka Metro U.

Yosuke Itoh, Yoshiyuki Morisawa, Ken-ichi Nakao, Kodai Ueda, Hirotaka Yoshino

Osaka Inst. Tech.

Masato Nozawa, Hisa-aki Shinkai, Takashi Torii

New History of JGRG

https://www-tap.scphys.kyoto-u.ac.jp/jgrg/index.html

JGRG1	Tokyo Metropolitan University	(4th Dec - 6th Dec 1991)	JGRG21	Tohoku University	(26th Sep -29th Sep 2011)	
JGRG2	Waseda University	(18th Jan -20th Jan 1993)	JGRG22	The University of Tokyo	(12-16th Nov 2012)	
JGRG3	The University of Tokyo	(17th Jan - 20th Jan 1994)	JGRG23	Hirosaki University	(5-8th Nov 2013)	
JGRG4	YITP, Kyoto University	(28th Nov - 1st Dec 1994)	JGRG24	IPMU, The University of Tokyo	(10-14th Nov 2014)	
JGRG5	Nagoya University	(22nd Jan-25th Jan 1996)	JGRG25	YITP, Kyoto University	(7th-11th Dec 2015)	
JGRG6	Tokyo Institute of Technology	(2nd Dec - 5th Dec 1996)	JGRG26	Osaka City University	(24-28th Oct 2016)	
JGRG7	YITP, Kyoto University	(27th Oct - 30th Oct 1997)	JGRG27	Hiroshima University	(27th Nov - 1st Dec 2017)	
JGRG8	Niigata University	(19th Oct - 22nd Oct 1998)	JGRG28	Rikkyo University	(5-9th Nov 2018)	
JGRG9	Hiroshima University	(3rd Nov - 6th Nov 1999)	JGRG29	Kobe University	(25-29th Nov 2019)	
JGRG10	Osaka University	(11th Sep - 14th Sep 2000)	JGRG30	online/Waseda University	(6-10th Dec 2021)	
JGRG11	Waseda University	(9th Jan - 12th Jan 2002)	JGRG31	The University of Tokyo	(24-28th Oct 2022)	
JGRG12	Komaba, The University of Toky	yo(25th Nov - 28th Nov 2002)	JGRG32	Nagoya University	(27th Nov-1st Dec 2023)	
JGRG13	Osaka City University	(1st Dec - 4th Dec 2003)	JGRG33	Kindai University	(2th - 6th Dec 2024)	
JGRG14	YITP, Kyoto University	(29th Nov - 3rd Dec 2004)				
JGRG15	Tokyo Institute of Technology	(28th Nov - 2rd Dec 2005)				
JGRG16	Niigata Prefectural Center	(27th Nov - 1st Dec 2006)	IGRG	34 Kyoto Universi	ty 2025	
JGRG17	Nagoya University	(3rd Dec - 7th Dec 2007)	30110	OT TYPE OTHER	Ly LOLO	
JGRG18	Hiroshima University	(17th-21st Nov 2008)				
JGRG19	Rikkyo University	(30th Nov -4th Dec 2009)	JGRG3	Nihon University	y 2026	

(21st Sep -25th Sep 2010)

JGRG20

YITP, Kyoto University