

# Tatsuya Matsumoto

## Curriculum Vitae - October 2020

Hebrew University of Jerusalem, Racah Institute of Physics  
206, Ross Building, Edmond J. Safra Campus, Jerusalem, 91904, Israel  
[tatsuya.matsumoto@mail.huji.ac.il](mailto:tatsuya.matsumoto@mail.huji.ac.il)

### Education

<b>Ph. D.</b> in Physics	2018.3
<b>M. Sc.</b> in Physics	2015.3
Kyoto University, Adviser: Prof. Takahiro Tanaka	
<b>B. Sc.</b> in Physics	2013.3
Kyoto University	

### Professional Experience

<b>Postdoctoral Researcher</b>	2018.4-
Hebrew University of Jerusalem, Racah Institute of Physics	
<b>JSPS Postdoctoral Fellow</b> (Japan Society for the Promotion of Science)	2019.4-
The University of Tokyo, Research Center for the Early Universe	
<b>JSPS Postdoctoral Fellow</b>	2018.4-2019.3
Kyoto University	
<b>JSPS Research Fellow for Young Scientists (DC2)</b>	2017.4-2018.3
Kyoto University	

### Research Interests

High-energy astrophysics: Gamma ray bursts, compact binary mergers, supernovae, supermassive black holes, tidal disruption events

### Honors & Awards

JSPS Postdoctoral Fellow	2018.4-
JSPS Overseas Program for Young Researchers	2018
JSPS Research Fellow for Young Scientists	2017.4-2018.3
Japan Student Services Organization Repayment Exemptions for students who have achieved an especially excellent record	2015
Scholarship by Iwadare Scholarship Foundation	2013.4-2014.3

### Teaching & Advising

Teaching assistant, Kyoto University	2014.10-2016.3
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### Academic Service

Referee: The Astrophysical Journal

## **Scientific Talks**

### ***Seminar & Colloquia***

- Yukawa Institute for Theoretical Physics, Sep. 30, 2020
- Tohoku University, June 8, 2020
- Penn State University, Apr. 3, 2019
- Tel Aviv University, Oct. 24, 2018

### ***Conference talks***

- “Generalized compactness limit and its application to GRB 170817A”  
Gamma-ray Bursts in the Gravitational Era 2019, Yokohama, Japan, Oct. 2019
- “Generalized compactness limit and its application”  
Multi-messenger Astrophysics in the Gravitational Era, Kyoto, Japan, Oct. 2019
- “Generalized compactness limit from an arbitrary viewing angle and its application to GRB 170817A” (*Invited*)  
Workshop to bring together experts on High-Energy Astrophysics from Japan and Israel, RIKEN, Japan, July 2019
- “Generalized compactness limit for an arbitrary viewing angle and its application to GRB 170817A”  
Gamma-ray Bursts and Related Astrophysics in Multi-Messenger Era, Nanjing, China, May 2019
- “Is the macronova (kilonova) in GW170817 powered by the black hole central engine?”  
R-process Sources in the Universe, Arizona State University, USA, Mar. 2019
- “Constraints on the emitting region of the gamma-rays in GW170817”  
Aspen Winter Conference 2019: Astrophysics with Gravitational-Wave Population, Aspen, USA, Feb. 2019
- “Is the macronova in GW170817 powered by the central engine?”  
The First Annual Area Symposium: Gravitational Wave Physics and Astronomy, Kashiwa, Japan, Mar. 2018
- “Can isolated single BHs produce X-ray novae?”  
Symposium on New Development in Astrophysics through Multi-Messenger Observations of Gravitational Wave Sources, Kyoto, Japan, Aug. 2017
- “Can direct collapse black holes launch gamma-ray bursts?”  
GRB Workshop 2015, RIKEN, Japan, Aug. 2015