

Tatsuya Matsumoto

Curriculum Vitae – July 2021

Hebrew University of Jerusalem, Racah Institute of Physics
208, Ross Building, Edmond J. Safra Campus, Jerusalem, 91904, Israel
tatsuya.matsumoto@mail.huji.ac.il

Education

Ph. D. in Physics 2018.3
M. Sc. in Physics 2015.3
Kyoto University, Adviser: Prof. Takahiro Tanaka

B. Sc. in Physics 2013.3
Kyoto University

Professional Experience

Postdoctoral Researcher 2018.4-
Hebrew University of Jerusalem, Racah Institute of Physics

JSPS Postdoctoral Fellow (Japan Society for the Promotion of Science) 2019.4-
The University of Tokyo, Research Center for the Early Universe

JSPS Postdoctoral Fellow 2018.4-2019.3
Kyoto University

JSPS Research Fellow for Young Scientists (DC2) 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 2015
for students who have achieved an especially excellent record
Scholarship by Iwadare Scholarship Foundation 2013.4-2014.3

Teaching & Advising

Teaching assistant, Kyoto University 2014.10-2016.3

Academic Service

Referee: The Astrophysical Journal

Scientific Talks

Seminar & Colloquia

- Max Planck Institute for Gravitational Physics, May 11, 2021
- Northwestern University, Feb. 12, 2021
- 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