

Research Result Report

ICRR Inter-University Research Program 2023

Research Subject: Self interacting dark matter and gravitational waves

Principal Investigator: Quynh Lan Nguyen
Tagoshi Hideyuki (host faculty)

Participating Researchers:

Summary of Research Result :

In this research we study the dark matter in the beyond standard models specific self-interacting dark matter and its impact on the gravitational waves signal. We also study the magnetic field in the merging galaxy to understand the dynamics of the jet and its impact on the merging process of the supermassive black hole.

- Publications:
 - One publication on proceedings of the European Physical Society Conference on High Energy Physics.
 - One paper submitted to the Astrophysical Journal.
- Presentations: we have given 4 presentations at the conferences
- Training: 4 undergraduate students.

No.

