

Yoshiki Hatta^{1,2} (yoshiki.hatta@grad.nao.ac.jp)

¹Department of Astronomical Science, School of Physical Sciences, SOKENDAI

²National Astronomical Observatory of Japan

2-21-1 Osawa, Mitaka, Tokyo 181-8588, Japan

1. Education

2011 - 2014: College of Arts and Sciences, The University of Tokyo

2014 - 2016: Department of Earth and Planetary Environmental Science, The University of Tokyo

2016 - 2021: Department of Astronomical Science, SOKENDAI

Thesis Title: **Asteroseismology of a possible blue straggler star, KIC 11145123 (finished)**

Supervisors: Takashi Sekii, Hirohisa Hara, Othman Benomar

Topic 1: Asteroseismic inference on internal rotation of KIC 11145123

Topic 2: Non-standard modeling of KIC 11145123

Topic 3: Bayesian rotation inversion of KIC 11145123

Topic 4: Analysis of g-mode period spacing patterns of gamma Dor stars

2. Publication

▪ Journals

Hatta, Y., Sekii, T., Takata, M., and Kurtz, D. W.

“The Two-dimensional Internal Rotation of KIC 11145123”

Astrophysical Journal, 871, pp 135-145, 2019

Hatta, Y., Sekii, T., Takata, M., and Benomar, O.

“Non-standard modeling of a possible blue straggler star, KIC 11145123”

(to be submitted)

Hatta, Y., Sekii, T., Benomar O., and Takata, M.

“Bayesian rotation inversion of KIC 11145123”

(to be submitted)

▪ Proceedings

Hatta, Y., Sekii, T., Takata, M., and Kurtz, D. W.

“Asteroseismic Study of KIC 11145123: Its Structure and Rotation”

in “Dynamics of the Sun and Stars (Honoring the Life and Work of Michael J. Thompson)”, ASSP, 57, 243,

2020

3. Talks/Posters

▪ Talks

“Asteroseismic Study of KIC 11145123: Its Structure and Rotation”

Dynamics of the Sun and Stars (Honoring the Life and Work of Michael J. Thompson), Sep. 2019, Boulder, U.S.

▪ Posters

“Two-dimensional internal rotation of KIC 11145123”

Physics of Oscillating Stars, Sep. 2018, Banyuls-sur-Mer, France

4. Fellowships

April 2020 - current: Research Fellowship for Young Scientists, Japan Society for the Promotion of Science

June 2020: SOKENDAI Student Dispatch Program, SOKENDAI (canceled due to the current pandemic)

5. Outreach Experience

March 2019: “Walk in U.S. and Canada, Talk on Japan” Team 4