

First Circular

“Superflares on Solar-type Stars and Solar Flares, and Their Impacts on Exoplanets and the Earth.”
「太陽型星のスーパーフレアと太陽フレア、およびその惑星・地球への影響」(Japanese title)

[Dates]

Meeting: 2016 March 1st (Tue)– March 4th (Fri)

(Excursion (Kyoto tour): 2016 March 5th (Sat))

[Venue]

Building 6, Graduate School of Science, Kyoto University

Address: Kitashirakawa-Oiwake-cho, Sakyo-ku, Kyoto 606-8502, Japan

Access: <http://www.kusastro.kyoto-u.ac.jp/access/access.html>



[Host & Sponsorship]

- International Research Unit of Advanced Future Studies, Kyoto University
- Kwasan and Hida Observatories, Graduate School of Science, Kyoto University
- Department of Astronomy, Graduate School of Science, Kyoto University
- Unit of Synergetic Studies for Space, Kyoto University

[Purpose]

Main purpose of this workshop is to review and discuss superflares on solar type stars and related stars, solar white light flares, modeling of optical spectrum of solar white light flares and stellar flares, long term variation of stellar activity and starspots, dynamo theory of big spots leading to superflares on solar type stars, and to discuss possibility of superflares on the Sun, impacts of stellar superflares on exoplanets, and future possible impacts of solar superflares on the Earth. We also would like to encourage collaboration among participants on these subjects during the workshop and future.

Topics:

- Observations of stellar superflares and solar white light flares,
- Chromospheric dynamics of flares
- Starspots, Dynamo
- Long term stellar activity variation
- Impacts of flares on the planets
- Future plans of superflare studies

[SOC & LOC]

• SOC

Kazunari Shibata (Kyoto University, Chair)
Suzanne Hawley (University of Washington)
Hiroyuki Maehara (NAOJ)
Satoshi Honda (University of Hyogo)
Kiyoshi Ichimoto (Kyoto University)
Hiroaki Isobe (Kyoto University)

• LOC:

Daisaku Nogami (Kyoto University, Chair)
Ayumi Asai (Kyoto University)
Takako T. Ishii (Kyoto University)
Yuta Notsu (Kyoto University)
Shota Notsu (Kyoto University)
Kosuke Namekata (Kyoto University)

[Participants (at present)]

Invited Speakers

Suzanne Hawley (University of Washington, USA)
Adam Kowalski (NASA, GSFC, USA)
Steven Saar (Harvard-Smithsonian Center for Astrophysics, USA)
Luiz A. Balona (South African Astronomical Observatory, South Africa)
Valery Nakariakov (University of Warwick, UK)
Kyoko Watanabe (National Defense Academy of Japan)
Masashi Omiya (NAOJ, Japan)
Yoichi Takeda (NAOJ, Japan)
Hideyuki Hotta (Chiba University, Japan)

Other Participants (at present)

Superflare group

Hiroyuki Maehara (NAOJ,Japan), Satoshi Honda (Hyogo University, Japan)

Kazunari Shibata, Daisaku Nogami, Yuta Notsu,

Shota Notsu, Kosuke Namekata, (Kyoto University, Japan)

Other Kyoto University members (solar physics and exoplanets)

Kiyoshi, Ichimoto, Takako T. Ishii, Ayumi, Asai, Hiroaki Isobe, Takanori Sasaki

Shinsuke Takasao, Takuya Takahashi, and some graduate students

Other guests

Bun'ei Sato (Tokyo Tech University, Japan)

Han Yuan Chang (National Central University, Taiwan)

Mark Cheung (LMSAL, USA)

Some people working on 3.8 telescope project