

“Superflares on Solar-type Stars and Solar Flares, and Their
Impacts
on Exoplanets and the Earth.”

2nd circular : Participant list and Final program

Participants

Invited Speakers

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

Other Guests

Mark Cheung (LMSAL, USA)
Han Yuan Chang (National Central University, Taiwan)
Li-Ching Huang (National Central University, Taiwan)
Bun'ei Sato (Tokyo Tech University, Japan)
Yasuharu Sugawara (Chuo University, Japan)
Yoko Tsuboi (Chuo University, Japan)
Yoshitsugu Nakagawa (Kobe University, Japan)
Yoshiyuki Mizuno (Kyoto Women's University, Japan)

Japanese superflare group

Hiroyuki Maehara (NAOJ, Japan)
Satoshi Honda (University of Hyogo, Japan)
Kazunari Shibata (Kyoto University, Japan, **SOC chair**)
Daisaku Nogami (Kyoto University, Japan, **LOC chair**)

Yuta Notsu(Kyoto University, Japan)

Shota Notsu(Kyoto University, Japan)

Kosuke Namekata(Kyoto University, Japan)

Other Kyoto University members (solar physics and exoplanets)

Takako T. Ishii

Hisashi Hayakawa

Hiroyuki Ishikawa

Takuya Takahashi

Shinsuke Takasao

Takahito Sakaue

Kumi Hirose

Kiyoshi Ichimoto

Ayumi Asai

Hiroaki Isobe

Takanori Sasaki

Fumihide Iwamuro

Hiroki Kurokawa

Reizaburo Kitai

[Final program (2016/02/29)]

15min = 10min talk + 5min discussion

30min = 20min talk + 10min discussion

45min = 30min talk + 15min discussion

50min = 35min talk + 15 min discussion

60min = 45min talk + 15min discussion

3/1(Tue) Observation of Stellar Superflares and Solar White Light Flares

Time	Name	Rough contents of the talk
Chair: Kazunari Shibata		
10:00-10:10	Kazunari Shibata	Opening remarks
10:10-11:00	Hiroyuki Maehara	Superflares and starspot activity on solar-type stars
11:00-12:00	Suzanne Hawley	Observation of stellar flares
12:00-13:30	Lunch	
Chair: Ayumi Asai (or Shinsuke Takasao)		
13:30-14:30	Adam Kowalski	Modeling of optical spectrum of stellar flares
14:30-15:30	Kyoko Watanabe	Solar white-light flares
15:30-16:00	Break	
Chair: Kiyoshi Ichimoto		
16:00-16:30	Takako T. Ishii	White light flares observed at Hida Observatory
16:30-16:45	Kosuke Namekata	Statistical properties of solar white-light flares
16:45-17:00	Han Yuan Chang	A LAMOST-Kepler spectrophotometric study of hyper flares of M dwarfs
17:00-17:15	Li-Ching Huang	Physical Properties of G-type Kepler Eclipsing Binaries

3/2(Wed) Observation of Stellar Superflares and Spectroscopic Observations

Chair: Hiroaki Isobe		
10:00-11:00	Luis A. Balona	Flare stars across the H–R diagram
11:00-12:00	Valery Nakariakov	Oscillations of stellar flares
12:00-13:30	Lunch	
Chair: Suzanne Hawley		
13:30-14:15	Yuta Notsu	Spectroscopic observations of solar-type superflare stars
14:15-14:30	Satoshi Honda	Spectroscopic observations of flare star EV Lac at NHAO
14:30-15:00	Break	
Chair: Satoshi Honda		
15:00-16:00	Yoichi Takeda	Activities and related properties of solar-type stars
16:00-17:00	Steven Saar	Observations of Magnetic Cycles in Late-type Single Dwarfs: What are They Telling Us?
17:00-17:30	Mark Cheung	Evolving Models of Stellar Photospheric and Coronal Magnetic Fields

19:00~ Banquet at Ganko Nijo

3/3(Thu) Possibility of superflares on the Sun

Chair: Hiroyuki Maehara		
10:00-10:30	Kazunari Shibata	Can superflares occur on the Sun?
10:30-11:30	Hideyuki Hotta	Current understanding of solar global scale magnetic field and dynamo
11:30-11:45	Hisashi Hayakawa	World-Wide Records of Solar Flare Candidates in the 10th century and the 18th century
11:45-	Lunch	
PM	Tour to Kwasan Observatory (Excursion) http://www.kwasan.kyoto-u.ac.jp/general/facilities/index_kwasan_en.html	

3/4(Fri) Planets (AM) & Future Plans (PM)

Chair: Takanori Sasaki		
10:00-11:00	Masashi Omiya	Observations of exoplanets and stellar activity
11:00-11:15	Takuya Takahashi	CMEs of solar superflares
11:15-11:45	Daisaku Nogami	Kyoto 3.8m telescope and future plans of our superflare studies
11:45-13:30	Lunch	
Chair: Daisaku Nogami		
13:30-17:00	Discussions ~Future plans of superflare studies~ (Moderators: Daisaku Nogami and Kazunari Shibata)	
	<p>Short comments & Topics</p> <ul style="list-style-type: none"> -Daisaku Nogami: Future plans of our superflare studies -Hiroyuki Ishikawa: Comment on the habitability of M-type stars -Fumihide Iwamuro: Short comment on spectrograph of Kyoto 3.8m telescope -Bun'ei Sato: Comment on spectroscopic observations with Kyoto 3.8m telescope <p>(Introduction of TESS)</p> <ul style="list-style-type: none"> -Possibility of International Collaboration <p>Short comments (~5 min) are welcome !</p>	

3/5(Sat)

Kyoto tour