

June 18 – 21, 2013 The Ito Hall, the University of Tokyo, Tokyo Japan

# Programme

• Tuesday, June18th, 2013

8:40 -

Registration

#### [Overview session] Chair Hideo Matsuhara 9:10 - 9:15Hideo Welcome from Organizer Matsuhara Saku Tsuneta 9:15 - 9:25Message from Director of ISAS Yasushi Suto 9:25 - 9:35Message from Science Council of Japan 9:35 - 10:05Takao The next-generation infrared astronomy Nakagawa mission SPICA The SPICA MCS (Mid-infrared Camera and 10:05 - 10:35Hirokazu Kataza Spectrometer) Instrument Coffee break 10:35 - 10:55Kate Isaak Chair 10:55 - 11:25Peter Roelfsema The SAFARI Imaging Spectrometer for the SPICA space observatory 11:25 - 11:55Keigo Enya The SPICA Coronagraph Instrument (SCI): Overview 11:55 - 12:25Daehee Lee Focal plane camera (FPC) for fine guiding and NIR observation onboard SPICA Lunch break 12:25 - 14:00[Special Talk 1] Takashi Ichikawa Chair 14:00 - 14:30Issei Yamamura **AKARI's legacy to SPICA** [Science Session 1: Galaxy Formation and Evolution as Revealed in the Infrared] Takashi Ichikawa Chair Eckhard Sturm 14:30 - 15:20The mid-and far-infrared view on galaxy (R) evolution

15:20 - 15:40 15:40 - 16:10	Luigi Spinoglio Lee Armus (I)	SPICA spectroscopic cosmological surveys to unravel galaxy evolution Luminous Infrared Galaxies at Low and High
15.40 - 16.10	Lee Armus (I)	Redshift and the Promise of SPICA
16:10 - 16:30		Coffee break
Chair	Peter Roelfsema	
16:30 - 16:50	Philip Noel	Mid- and Far-IR Cooling Lines in Violently
	Appleton	Turbulent Environments: From
		Spitzer/Herschel to the hi-z world
16:50 - 17:10	Duncan Farrah	Mid- to far-infrared diagnostics of AGN
		feedback
17:10 - 17:40	Tomotsugu Goto	Cosmic star formation history and AGN
	(I)	evolution: from AKARI to SPICA
17:40 - 18:00	Takehiko Wada	PAH view of starburst galaxies: AKARI to
		SPICA
18:00 - 19:30	Pos	ter session (1) w/ reception drinks

# • Wednesday, June 19th, 2013

# [Science Session 1: Galaxy Formation and Evolution as Revealed in the Infrared]

Chair	Lee Armus	
9:00 - 9:20	Hanae Inami	Observing mid-infrared atomic fine-structure emission lines of U/LIRGs with SPICA
9:20 - 10:10	Dieter Lutz (I)	Far-infrared galaxy evolution surveys with Herschel
10:10 - 10:30	Veronique Buat	Far infrared properties of UV selected galaxies from z = 4 to 1.5: unveiling obscured star formation
10:30 - 10:50		Coffee break
Chair	Myungshin Im	
10:50 - 11:10	Denis Burgarella	On the Redshift Evolution (0 < z < 4) of Dust Attenuation and of the Total (UV+IR) Star Formation Rate Density
11:10 - 11:30	Mattia Negrello	Predictions for SPICA/SAFARI based on an hybrid model for the evolution of galaxies and Active Galactic Nuclei in the infrared
11:30 - 11:50	Jong-Hak Woo	Selection bias in the relation between AGN and star formation luminosities
11:50 - 12:10	Shinki Oyabu	Extra-galactic studies with the SCI: AGNs and nuclear starburst galaxies
12:10 - 14:00		Lunch break
Chair	Eckhard Sturm	
14:00 - 14:20	Jonathan Davies	Herschel far infrared surveys of nearby galaxy clusters
14:20 - 14:40	Etienne	Clusters of galaxies and beyond: from Planck
14:40 15:00	Pointecouteau	and Herschel to SPICA
14:40 - 15:00	Agnieszka Pollo	SPICA: a new window to understand links between cosmology and galaxy evolution
15:00 - 15:20	Eiichi Egami	Pushing SPICA's Limit with Gravitational Lensing

15:20 - 15:40	Coffee break

[Special Talk 2	2]	
Chair	<b>Rens Waters</b>	
15:40 - 16:10	Ryohei Kawabe (I)	Synergy of SPICA and mm/submm telescopes

#### [Science Session 2:

The Cycling of Matter Between Stars, Galaxies and the Intergalactic Medium]ChairRens Waters

Chair	Rens Waters	
16:10 - 17:00	Alexander	The cycling of matters between stars,
	Tielens (R)	galaxies, and IGM
17:00 - 17:30	Hidehiro Kaneda	Interstellar dust and PAHs in our Galaxy and
	(I)	nearby galaxies: from AKARI to SPICA
17:30 - 17:50	Suzanne	The Properties and the Structure of the ISM
	Madden	of Low Metallicity Dwarf Galaxies: From
		Herschel to SPICA

17:50 - 19:30

Poster session

# • Thursday, June 20th, 2013

### [Science Session 2:

# The Cycling of Matter Between Stars, Galaxies and the Intergalactic Medium]

Chair	Hidehiro Kaneda	
9:00 - 9:20	Toshiya Ueta	Herschel Planetary Nebula Survey
		(HerPlaNS): Spatially-Resolved Simultaneous
		Probing of the Dust and Gas Components of
		the Circumstellar Environs
9:20 - 9:40	Itsuki Sakon	Understanding the role of massive stars on
		the dusty ISM environment in galaxies aimed
		by observations with SPICA
9:40 - 10:00	Mikako	SPICA studies of supernovae
	Matsuura	
10:00 - 10:30	Ciska	SPICA's view on star formation and the
	Kemper (I)	interstellar medium
10:30 - 10:50		Coffee break
Chair	Takao Nakagawa	
10:50 - 11:10	Walter Gear	Herschel far-infrared observations of M31 the
		Andromeda Galaxy
11:10 - 11:30	Takuma Izumi	The synergy with SPICA and ALMA - for a
		robust AGN diagnostic
11:30 - 11:50	Ji Yeon Seok	PAH emission from HII regions in the
		SAGE-Spec Spitzer program
11:50 - 12:10	Hiroyuki	SPICA observations in the era of
	Hirashita	ground-based THz astronomy
12:10 - 14:00		Lunch break
Chair	Daehee Lee	
14:00 - 14:30	Young-Chol	Study on the interstellar OH radical in
	Minh (I)	mid-IR
14:30 - 14:50	Kay Justtanont	Evidence of hot-bottom-burning in extreme
		OH/IR stars
14:50 - 15:10	Sundar	Identifying the chemistry of the dust around
	Srinivasan	asymptotic giant branch stars in nearby
		galaxies

15:10 - 15:30	Poshak Gandhi	Probing the formation of relativistic jets in real-time with SPICA
15:30 - 15:50		Coffee break
[Special Talk 3]		
Chair	Motohide Tamura	
15:50 - 16:20	Toru Yamada (I)	Studying Galaxy Formation with SPICA and
		Future Extremely Large Telescopes
[Science Session	<u>n 3:</u>	
<u>Planet Formati</u>	on and Detection/C	<u>haracterization of Exoplanets]</u>
Chair	Motohide Tamura	
16:20 - 17:10	Michihiro	Studies of exoplanets and solar systems using
	Takami (R)	SPICA: an overview
17:10 - 17:40	Javier R.	The far-IR view of Star Forming Regions: in
	Goicoechea (I)	route to SPICA
17:40 - 18:00	<b>Rens Waters</b>	Results from the HERSCHEL DIGIT open
		time key program

19:00 - 21:00

Banquet (Hotel Chinzanso Tokyo)

# • Friday, June 21st, 2013

#### [Science Session 3:

#### Planet Formation and Detection/Characterization of Exoplanets]

Chair	Keigo Enya	-
9:00 - 9:30	Shigeru Ida (I)	Wide separation jupiters and their
		implications for planet formation theory
9:30 - 10:00	Misato	Current understanding of young circumstellar
	Fukagawa (I)	disks
10:00 - 10:20	Daisuke	Evolution of solid materials in planet-forming
	Ishihara	disks -From AKARI to SPICA
10:20 - 10:40		Coffee break
Chair	Hirokazu Kataza	
10:40 - 11:00	Bruce Sibthorpe	Debris discs: From Herschel to SPICA
11:00 - 11:20	Takashi Onaka	Warm debris disks with SPICA
11:20 - 11:40	Takayuki Kotani	Exoplanet science with the SPICA
		Coronagraph Instrument
11:40 - 12:00	Rene Liseau	Asteroid Dust around Solar Type Stars with
		SPICA
12:00 - 12:30	Thijs de Graauw	Conference Summary (with discussions)
12:30		Sayonara !!

(R): Review talk, (I): Invited talk