

DENET, Sumire, and TodaiForum

DENET conference

The Accelerating Universe

October 24-26, 2011@IAP



Yasushi Suto *Dept. of Phys., The University of Tokyo
& Global Scholar, Dept. of Astrophys. Sci., Princeton University*

International Research Network for Dark Energy (JSPS, core-to-core program 2007-2012)

DENET

Princeton U.
Dept. of
Astrophys. Sci.
coordinator
Edwin Turner

CMB
Gravitational lens
Baryon oscillation

Edinburgh U.
Royal Obs.
coordinator
John Peacock

Univ. of Tokyo
Res. Center for the
Early Universe
coordinator
Yasushi Suto

Tohoku
Univ.

NAOJ

Hiroshima
Univ.

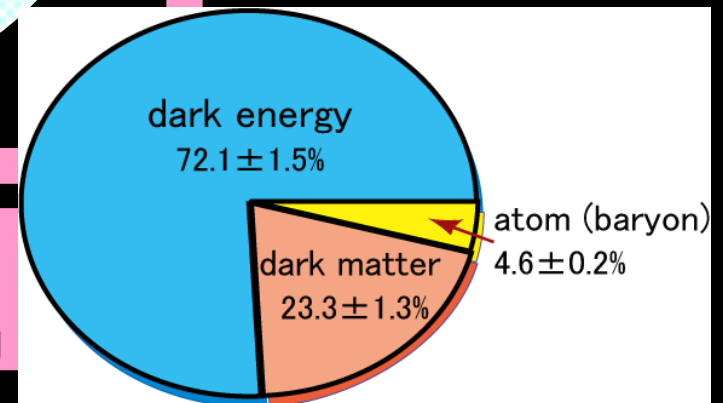
Kyoto
Univ.

Nagoya
Univ.

Institut
d'Astrophysique
de Paris
coordinator
Jerome Martin

Modified gravity
Extra-dimension
backreaction

Theoretical model
Baryon oscillation
Weak lens mapping



DENET activities

- Promotion of international collaboration on dark energy in the universe (SUMIRE)
 - HSC collaboration between Japan and Princeton was established through DENET activities
 - DENET plays a major role in PSF international collaboration led by Hitoshi Murayama
- Exchange of researchers and students among the participating institutes
 - US collaborators include Saul Perlmutter (while I doubt that DENET contributed his Nobel prize award)
- Summer schools in Japan every year
- International conferences outside Japan every year

Galaxy survey project: SuMIRe

Subaru **M**easurement of **I**maging and **R**edshift of the universe

- **PI: Hitoshi Murayama** (director of IPMU, U. of Tokyo)
 - Japanese Institutes in charge: IPMU, The University of Tokyo, NAOJ +
- **Imaging survey with HSC** (Hyper-Suprime Cam)
 - Japan + Princeton + ASIAA (Taiwan)
- **Spectroscopic survey with PFS** (Prime Focus Spectrograph)
 - Japan + Various international collaboration scheme is under discussion

DENET summer schools

- 2007 Hakone (with hot spring)
 - Nemanja Kaloper, David Parkinson, Mamoru Doi
- 2008 Asamushi (with hot spring)
 - Alan Heavens, Andrei Frolov, Kazuya Koyama
- 2009 Okinawa
 - Alexei Starobinsky, Michael Seiffert, Will Percival
- 2010 Kochi
 - Dragan Huterer, Jerome Martin, Massimo Meneghetti
- 2011 Aso (with hot spring)
 - Roy Maartens, Shirley Ho, Toru Yamada, Alexei Starobinsky

DENET international conferences

- 2007 Decrypting the universe (Edinburgh)
- 2008 Cosmology near and far (Hawaii)
- 2009 Science Opportunities with Wide-Field Imaging and Spectroscopy of the Distant Universe (Princeton)
- 2010 The Observational Pursuit of Dark Energy after Astro2010 (Caltech)
- 2011 Subaru HSC Workshop (Taipei)
- 2011 The Accelerating Universe (IAP)

Decrypting the Universe

Large Surveys for Cosmology

Invited Speakers

D. Spergel
S. Cole
E. Copeland
M. Doi
A. Helmi
O. Lahav
R. Maartens
Y. Mellier
S. Miyazaki
A. Murphy
M. Takada
T. Yamada

24th-26th October 2007

Edinburgh, Scotland

Joint Royal Observatory Edinburgh / JSPS
Core-to-Core Program Workshop

www.roe.ac.uk/roe/workshop/2007

**Royal
Observatory
Edinburgh
Scotland**

Local Organising Committee

A. Heavens
R. Ivison
A. Nicol
P. Norberg (Chair)
P. Simon
F. Simpson
A. Taylor



Science & Technology Facilities Council
UK Astronomy Technology Centre





COSMOLOGY NEAR & FAR: SCIENCE WITH WFMOS

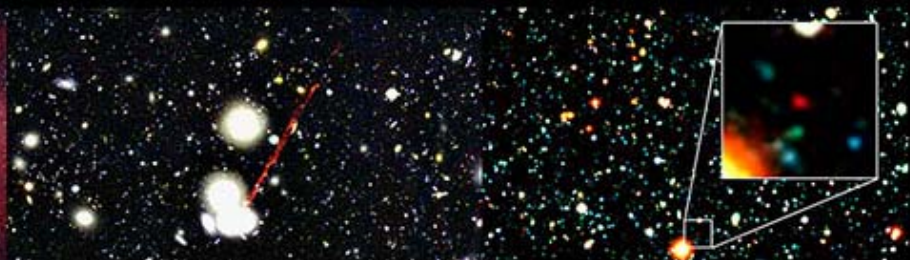
May 19-21, 2008 @Marriot, Kona, Hawaii



Astronomy
Australia
Ltd.



Science & Technology
Facilities Council



DENET and Princeton joint conference:
*Science Opportunities
with Wide-Field Imaging and
Spectroscopy of the Distant Universe*
November 9-11, 2009@Princeton Univ.

<http://www.astro.princeton.edu/astroevents/widefieldsurveys/program.php>

28 Japanese participants supported by DENET



DENET-Caltech conference:
The Observational Pursuit of Dark
Energy after Astro2010
October 7-9, 2010@Cahill Center for
Astronomy and Astrophysics, Caltech



DENET 2011 Subaru HSC Workshop

March 7 & 8, 2011

ASIAA, Taiwan



Institute of Astronomy and Astrophysics
中央研究院 天文及天文物理研究所



- To promote academic and student exchange and introduce the latest research activities at Todai, Todai Forum is held with close partnership with globally renowned academic institutions around the world. It is held approximately biennially, each year focusing on particular themes which are approached in a multidisciplinary manner.
- This year's partner institutions are Collège de France, CNRS, the city of Lyon, Université de Lyon (including ENS Lyon and INSA Lyon) and other institutions which have sustained close academic relationships with the University of Tokyo over the years.

Reception at Collège de France on October 17, 2011



Reception at Hotel du ville, Lyon on October 19, 2011



IAP-DENET International Conference “The Accelerating Universe”

October 24-26, 2011

Institut d'Astrophysique de Paris



Conclusion

We hope all of you enjoy the sciences presented at the final conference of DENET, think about what can be done for the international collaboration on dark energy through the Subaru telescope as well as today's welcome reception and tomorrow's banquet.