

At EACOA in Kyoto University 06/11/2011



Report from NAOJ

Shoken MIYAMA
National Astronomical
Observatory of JAPAN

国立天文台の研究施設

国立天文台は、東京都三鷹市に本拠を置くとともに、研究目的に応じ、国内外各地に観測所を設置しています。

■野辺山キャンパス



野辺山宇宙電波観測所

宇宙の分子雲の観測と星形成過程の観測を目的として、野辺山に設置されている40m口径電波観測所。



野辺山大口径電波観測所

宇宙の電磁波を観測し、宇宙の構造や星形成過程を観測するための電波観測所。

■乗鞍コロナ観測所



太陽コロナ観測の観測所として、乗鞍に設置されている、25cm口径のコロナグラフ。

◆VERA入来局



観測・観測・太陽系中心の太陽系観測の中心となる、VERA観測所。

■岡山天体物理観測所

- ◆VERA石垣観測所
- ◆石垣島天文台



■水沢キャンパス



水沢VERA観測所

水沢VERA観測所は、水沢に設置されている、25cm口径の電波観測所。

◆VERA水沢局



■三鷹キャンパス



◆VERA小笠原局



Japan

天文学の発展には、可視光・赤外線・電波・重力などの観測手段と、太陽・恒星・銀河などの観測対象に依り、最新の観測手段と環境が不可欠である。

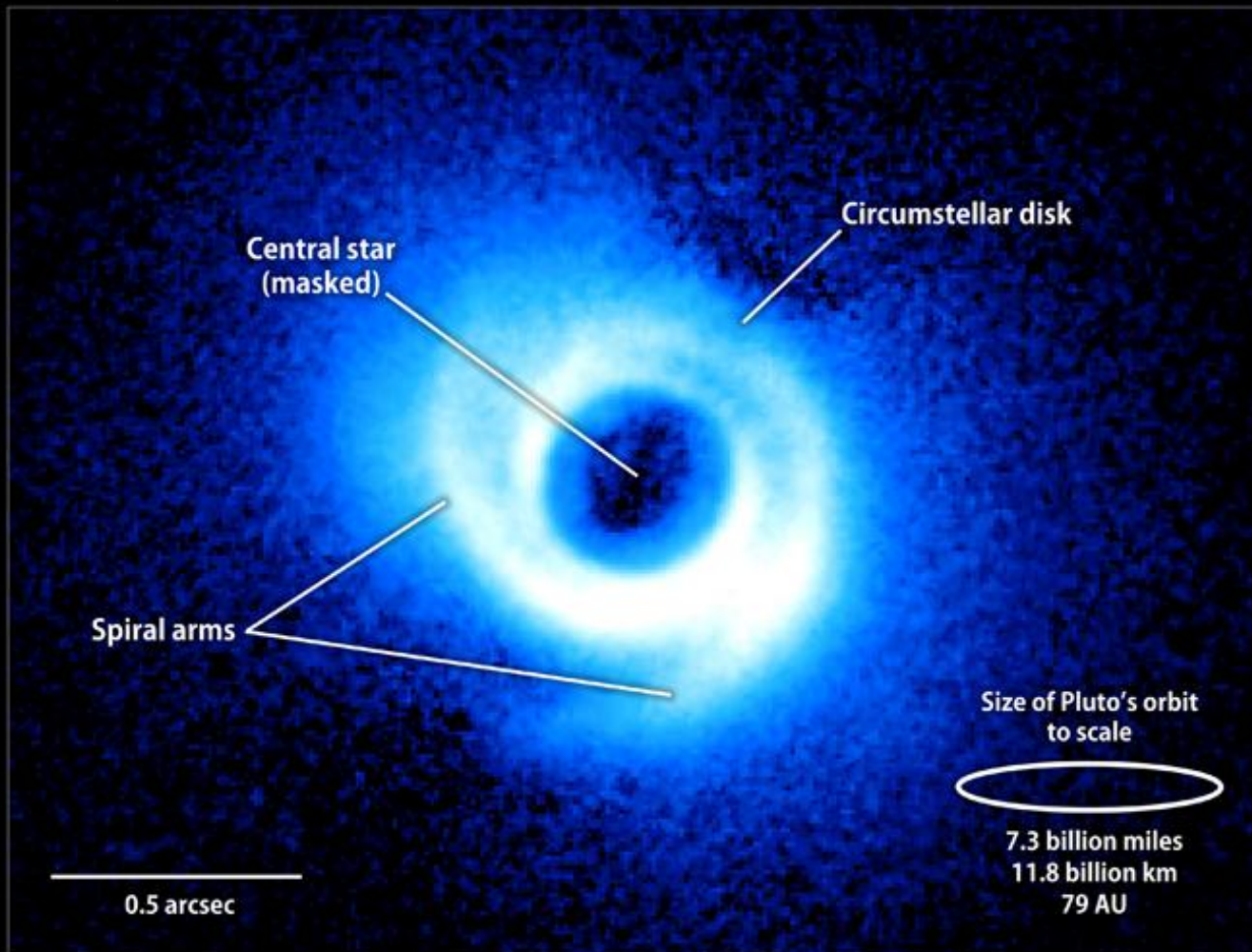
- Recent Science results
- ALMA
- SUBARU
- TMT

First Image of ALMA

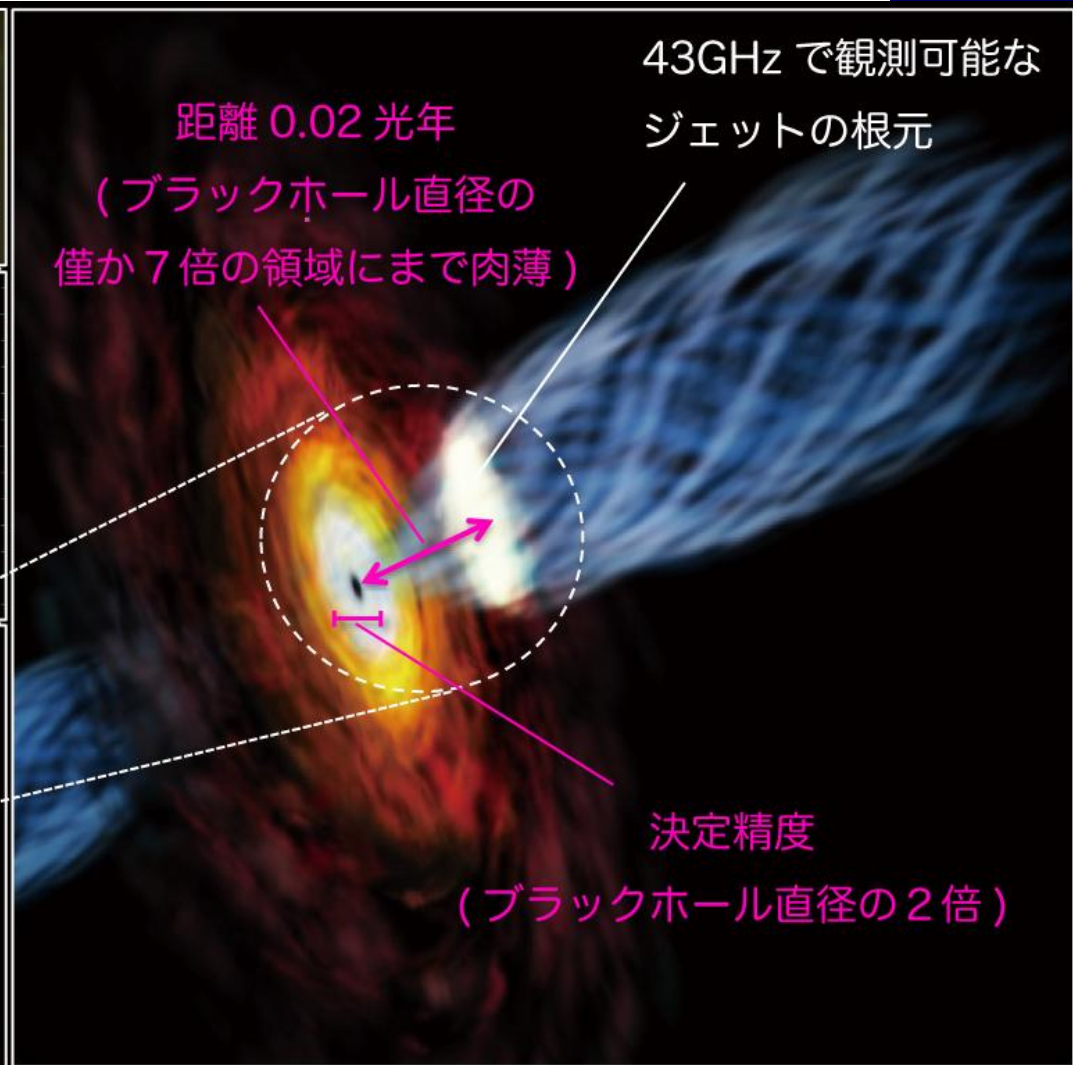
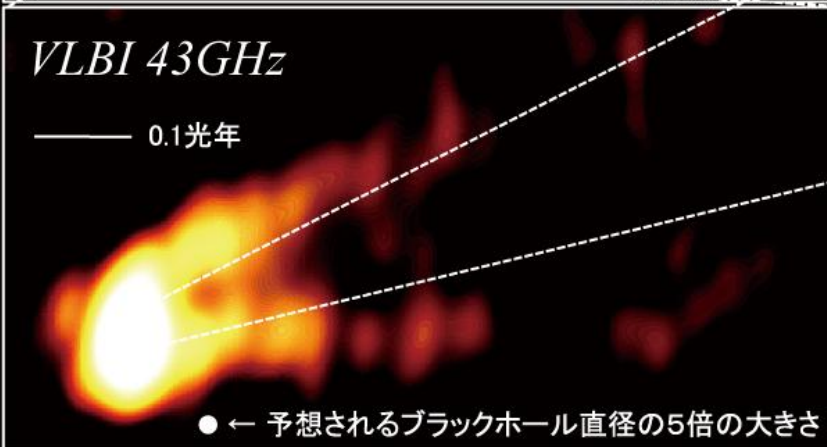
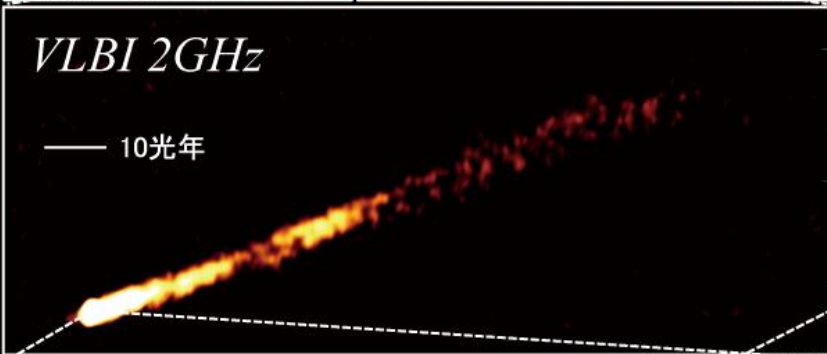
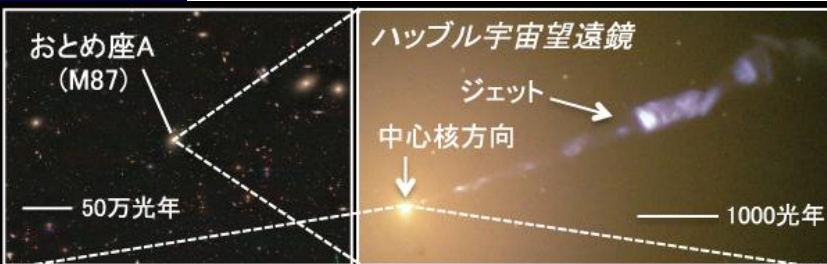


Spiral Disk around YSO

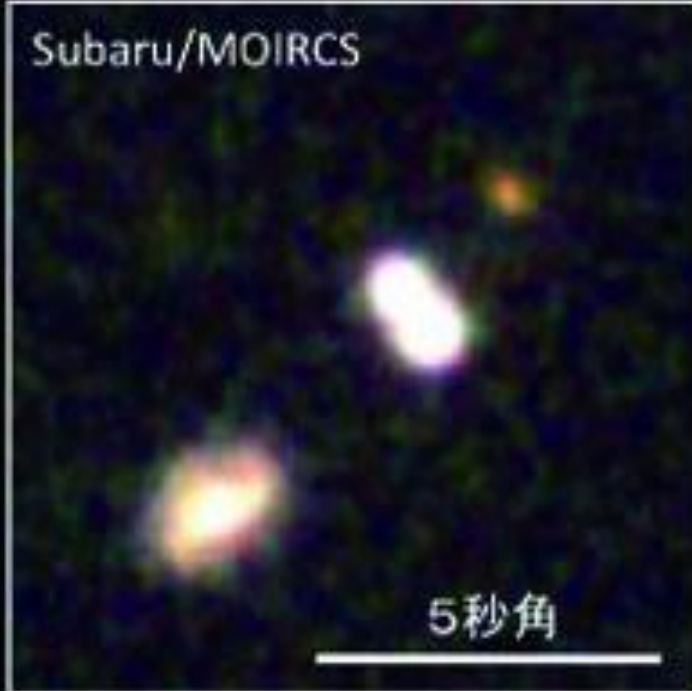
Spiral features revealed in SAO 206462's dust disk



Jet from BH

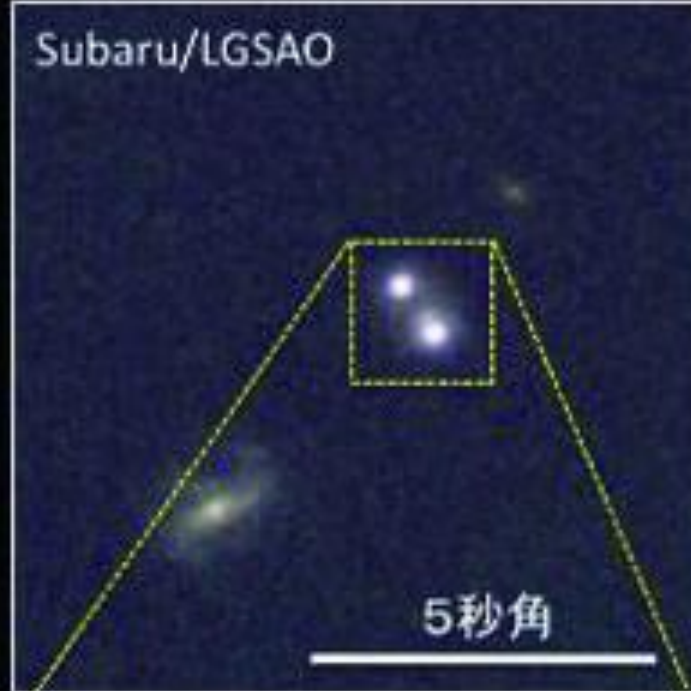


Subaru/MOIRCS



5秒角

Subaru/LGSAO

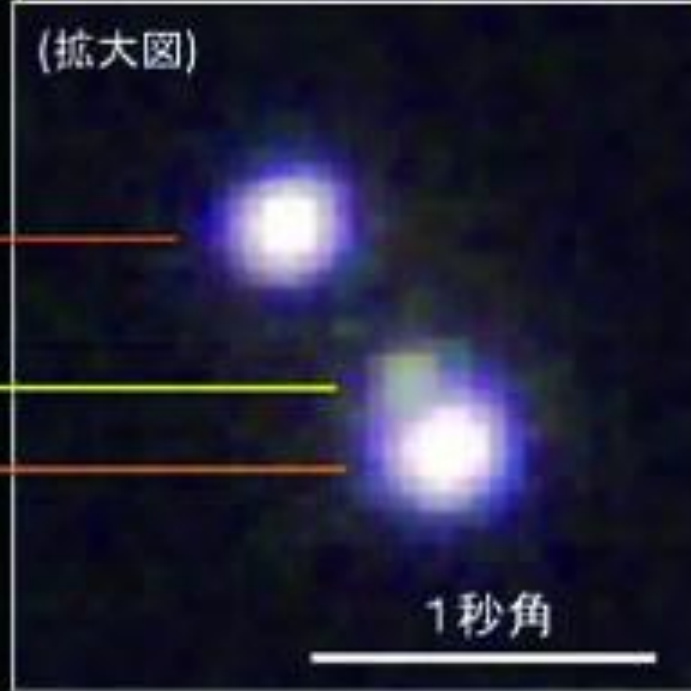


5秒角

二重クェーサー
SDSS J1334+3315

初めて検出された
重力レンズ銀河

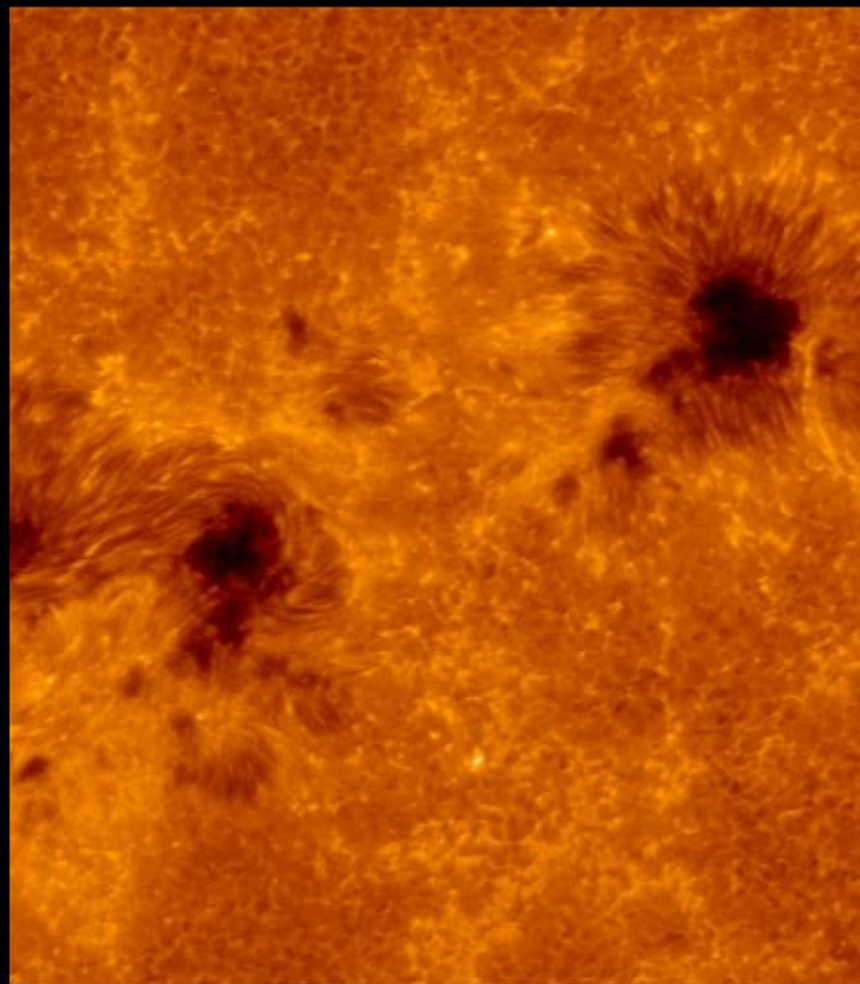
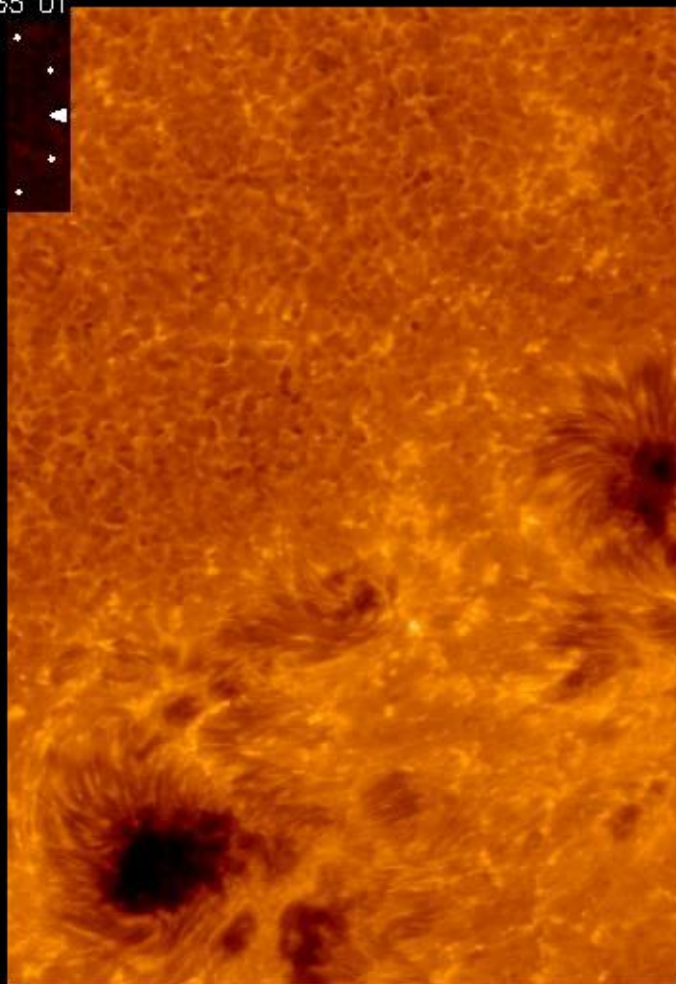
(拡大図)



1秒角

Hinode

14-Feb-2011
22:02:35 UT



ALMA



Cycle 0: Early Science with 16 antenna

- March 31, Call for proposal
- June 30, deadline of Cycle 0:
Proposal #: 919 (from EA : 182)
- August 31, selection
Accepted proposal #: 112
Competitive rate ~ 9 times
Top 100 (EA 16, EU 43, NA 38, CL 1)
- September 30, Observation starts

Open to New Asian Partner

- In-Kind contribution toward the development for new instruments
- In-Cash contribution to the Operation budget of ALMA
- We can use the Radio telescope which is the best in the world

SUBARU telescope



New Instruments

- Hyper SC

Field of View = 1.5 degree \times 1.5
about 1000 times wider than HST
First Light will be Next January

- Prime Focus Spectrograph

PI : Dr. Murayama (IPMU)
First Light will be in 3 years

SUBARU: Open to **EACOA Countries**

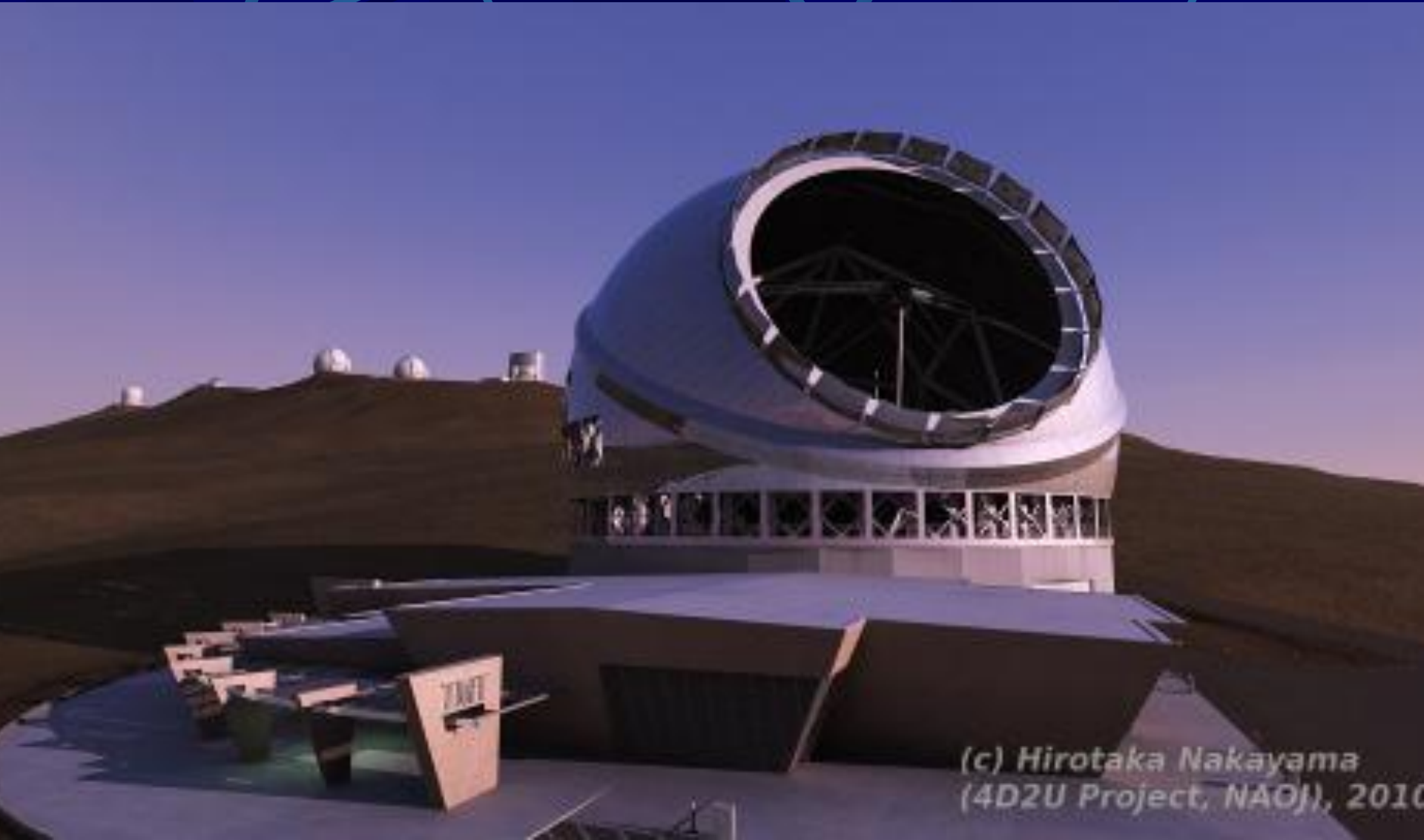
- Working together with SUBARU

is very important for the operation of big telescope, making new instruments and getting science results.

- I would like to **invite** staff, young astronomers and graduate students to **Hawaii observatory**

- It will be good experience for ELT

TMT



(c) Hirotaka Nakayama
(4D2U Project, NAOJ), 2010

Schedule of TMT

- The review panel for TMT is set in MEXT. In this year we will receive the report of the review.
- We request the preparing budget for 2012 and 2013.
- In NAOJ the feasibility review will be done in next July
- NSF will review GSM in next August

EACOA Fellow

- I hope EACOA fellowship begins in next year, thought we have long time to establish. That is one of results by EACOA.
- I hope new DG of NAOJ will understand much about the importance of EACOA.

Thank you