



2018.8

- Univ. of Manchester
- Jodrell Bank Observatory
- 76 m telescope (built in 1957)
- with Prof. Gary Fuller
- World Heritage (2019)

- I was extremely impressed by the way that the Jodrell Bank Observatory is doing
 - refurbishment of the main dish (money from SKA, HQ of SKA!)
 - kids' science programs (25%? income)
 - summer rock music concert with project mapping illumination (50% income)
 - First Light Pavillion visitors centre £20M ~ 30億円
- I wish to do something for Nobeyama --- how to earn
 - charged telescope time
 - paid guided tour, commercial filming, paid astrophotography event, observatory souvenir



2018.8 CAFETERIA







Jodrell Bank Discovery Centre

THE FIRST LIGHT PAVILION

The First Light Project represents a £20.5m investment in to Jodrell Bank Discovery Centre and will transform the site into a world-class visitor attraction. It will allow us to open our doors to thousands more visitors and school children, providing an inspirational space in which to deliver workshops and outreach sessions, giving more people the chance to reach their potential.

The centrepiece of the project will be the **First Light Pavilion**, a stunning new building constructed in the gardens of Jodrell Bank. The Pavilion, designed by the internationally acclaimed architects HASSELL Studio, will include a gallery dedicated to telling the story of Jodrell Bank, an immersive projection space and auditorium, and a new education hub and cafe.



Artist's Impression of the First Light Pavilion HASSELL







A beautiful auditorium will also feature, housing an immersive projection space where visitors will be able to watch an animated history of Jodrell Bank. The auditorium will also serve as a unique new venue for events, evening lectures, recitals, planetarium shows, workshops, and plenty more.

Above: Exhibition design by Casson Mann Below: Artist's Impression of the auditorium and immersive projection space



2018.8

 30億円の visitor center under construction

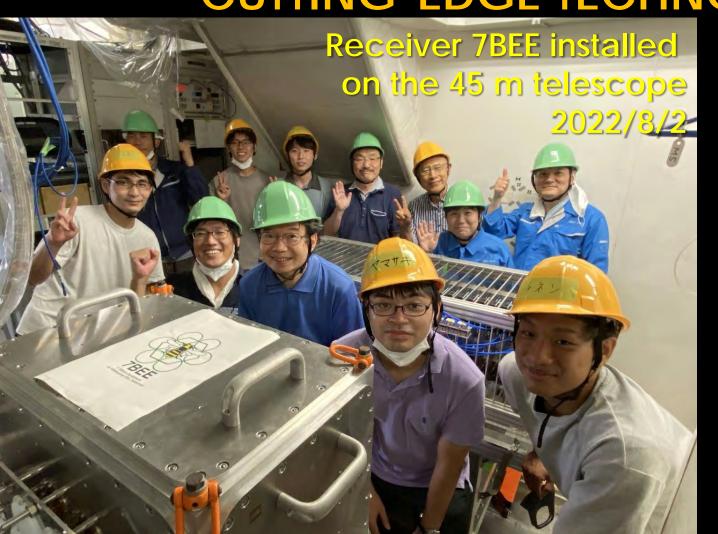
FIRST LIGHT PAVILION COMPLETE (2022)





UNIV. MANCHESTER:

CUTTING-EDGE TECHNOLOGY AND HISTORY



- U. Manchester develops the world's best InP HEMP amplifiers for 67-116 GHz.
- We originally planned to get them for our receiver 7BEE from Gary Fuller, but Manchester lab got closed due to the pandemic.
- Instead, we bought them from Low Noise Factory.

PERSONAL VIEW

- Europe has a long cultural history. They are much proud of their culture, AND invest enough money in culture and education, although their economy is not very good.
- This might be in contrast with a simple "scrap and build" way, which is popular in US and Japan.
- Probably, we may do something similar at Nobeyama Radio Observatory, in parallel to active operation of the 45 m telescope.

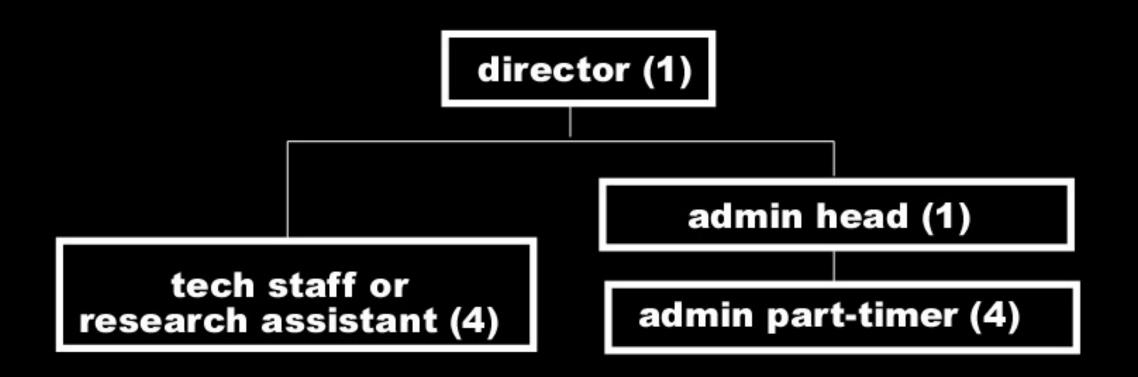


DISCUSSION POINTS

BACKGROUND INFO

- K. Tatematsu
 - will retire in 2025 March (16 more months)
 - term of Director: till 2024 September (10 more months)
- Job opening for Professor or Associate Professor
 - under selection
 - the person will become only one astronomer at Nobeyama

ORGANIZATION CHART FOR 2028-2033 PRESENTED AT NAOJ FUTURE SYMPOSIUM



DISCUSSION POINTS

- Charged telescope time: Are you happy? Suggestions for improvement?
- Nobeyama Development Program: may depend on new director. It apparently needs technical expertise.
- Hands-on Tutorials
 - So far, we have accepted 3-4 charged University-led Hands-on Tutorials a year
 - At least, in FY2024, we resume free-of-charge undergraduate Hands-on Tutorial.
 - At least, in FY2024, we offer <u>three slots</u> of <u>free-of-charge University-led</u> Hands-on Tutorials, <u>in addition to normal charged University-led</u> Hands-on Tutorials
 - Let us discuss for plans FY2025-. Of course, the basic idea is to continue them, but can the observatory do them? Again, may depend on new director.
- Any suggestions for the future? What is the shape of Nobeyama you wish, if you still think that Nobeyama should continue its operation.