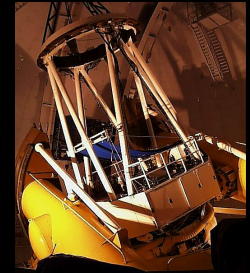
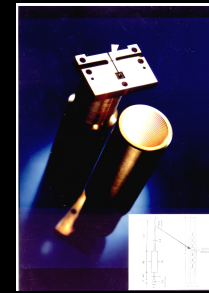
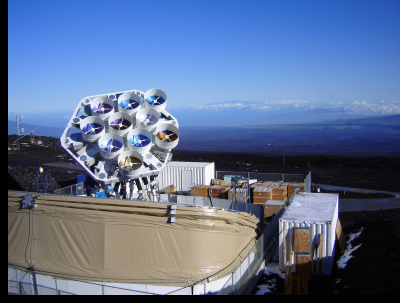
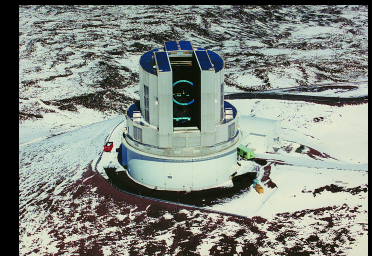
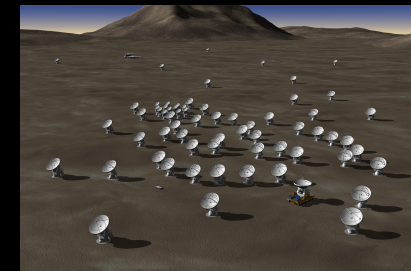
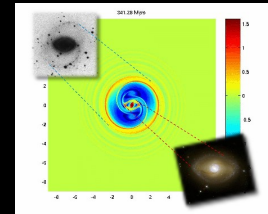


# MAJOR ASIAA PROJECTS (2012)



- SAO • **SMA** : Array Completed; **BW Upgrade**
- NTU • **AMiBA** : 7-element papers; 13-element installed
- NTHU • **TIARA**; **SIS Junction** : 230, 345, 400, 690, **900 GHz**  
 (NAOJ, PMO) → (SAO, Yonsei) →
- NCU • **TAOS-1** : 4-element Operation; **TAOS-2**: Building
- ASIM • **CFD-MHD** : 2-D Hydro Codes – **3-D**
- CFHT • **WIRCam** : Operating; **SPIROU**
- NAOJ • **ALMA-J** : **FEIC shipped 17<sup>th</sup> FE to Chile**
- NRAO • **ALMA-NA**: 12m antenna, ALS; **3/5 FEs, VLBI**
- NAOJ • **HSC**: filter exchanger, 125 CCDs, lens; **PFS**
- SAO • **Submm VLBI**: acquired ALMA-NA prototype

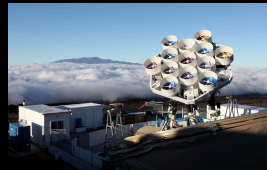


# ASIAA Instrument Projects

- RADIO:** SMA --- AMiBA --- ALMA --- **GLT**



(2003)



(2009)



(2012)



(2014)

- OIR:** TAOS-1 --- CFHT/WIRCam --- Subaru/HSC

(2004)

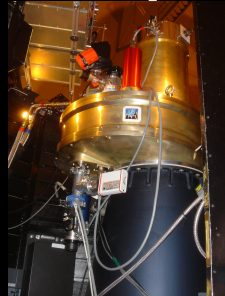
(2005)

(2011)



**TAOS-2**

(2013)



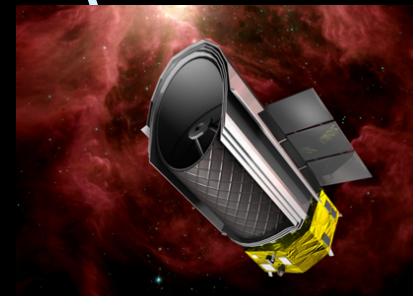
**SPIROU**

(2015?)



**PFS**

(2017?)



**SPICA**

(2020?)

# ASIAA Radio Developments

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- **Emphasis: Interferometry (Highest Resolution)**  
**Submillimeter Wavelengths**
- **Technical Developments:** **Detectors (SIS)**  
**Microwave Devices**  
**Digital Electronics**  
**System Integration**  
**Antennas**  
**Focal Plane Arrays**

# ASIAA Interests in SKA

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- SKA Science: High-z HI (BAO, EoR)  
Pulsar Timing (Grav wave)
- SKA Technology: Digital Processing  
Widefield Imaging
- SKA Strategy: Focused Project  
East Asian Collaboration



# ASIAA SKA Related Activities

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- Digital Developments: 5GHz (10GHz) ADC
- Receivers: ALMA Band 1 Developments  
GBT 800MHz Focal Plane Array
- Science: GMRT EoR Experiments  
GBT BAO Experiments
- Planning: Focusing on Technology