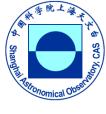


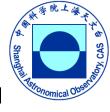
#### **Collaboration with NRAO**



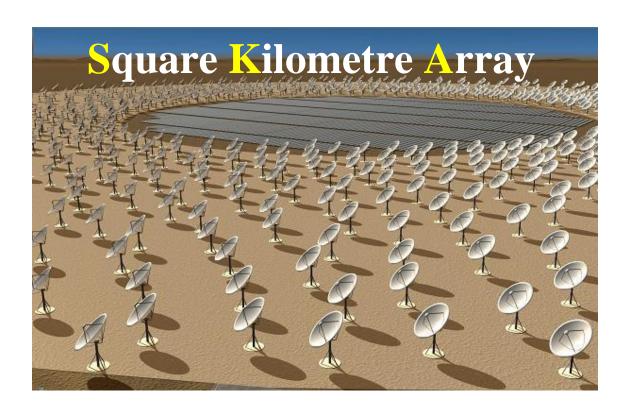
- Collaboration with NRAO is very important for SHAO:
- TianMa (SH65m) project.
  - Design of the telescope
  - C and Ku band receivers
  - DIBAS (for Pulsar and spectral lines observations)
- SMVA (SVLBI)
- Exchange project
  - make both sides know each others. Our young engineers and young astronomers learnt a lot from NRAO.
- Further collaboration with your NBT is very attracting to us





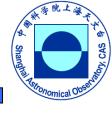


> SKA: 5-10%

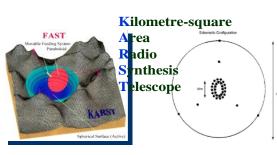




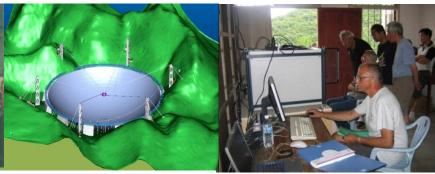
# **Long March to SKA**



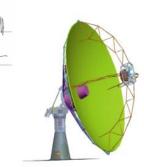
■ Co-initiator of LT(1993) ⇒ Engineer concept KARST (1994, result in FAST) ⇒ Potential site ⇒ Co-founder of SKA funding board (Apr. 2011) → Initial member of SKAO (Nov. 2011) → Technical development (currently)









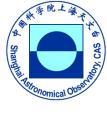




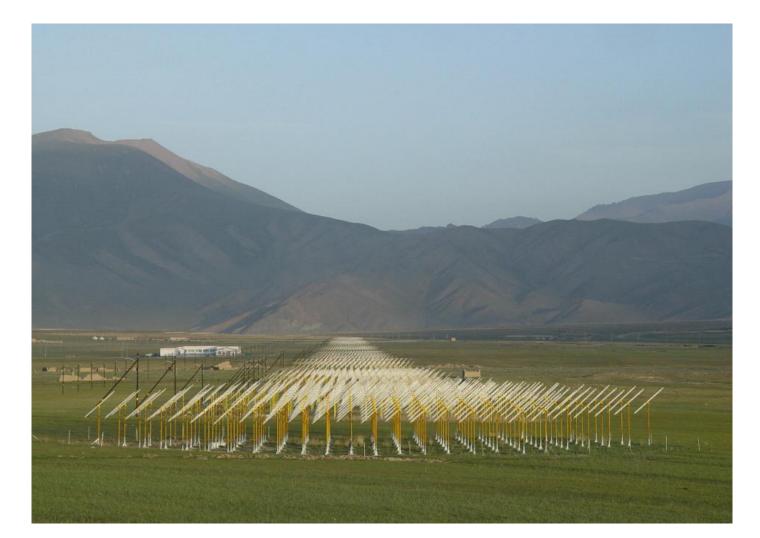




### **Current new projects in China**

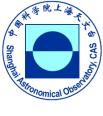


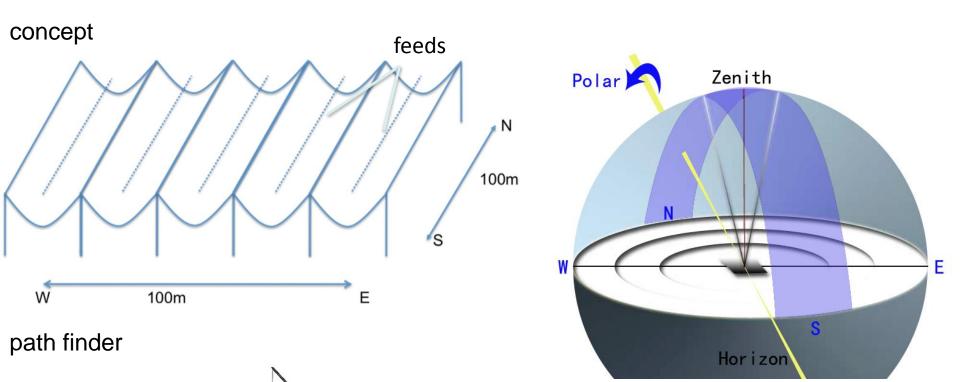
> 21CMA: NAOC, Xiangping Wu





## Tianlai(天籁) experiment,



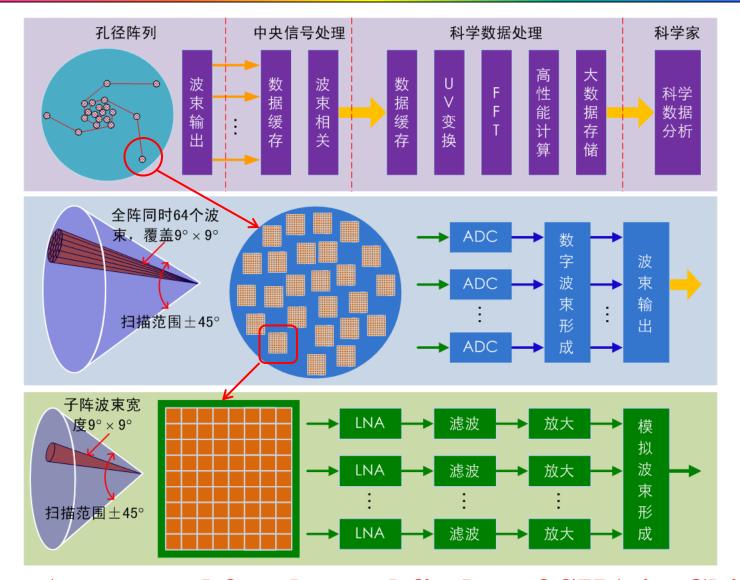


instant field of view

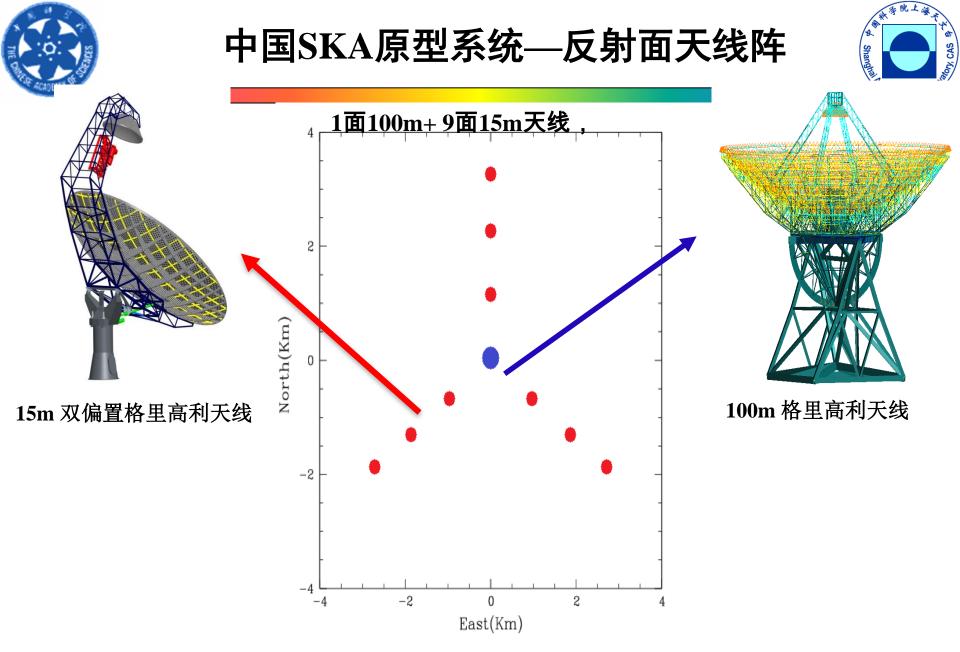
Xue Lei Chen, NAOC



## 中国SKA孔径阵列—CAA(中频》

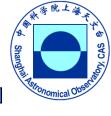


A proposal for the pathfinder of SKA in China



A proposal for thr pathfinder of SKA in China

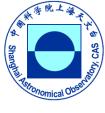




➤ It is not easy to have a new big project in China independent.

- Joint study group is a good idea at current step
- Northern Hemisphere SKA at High Frequency (at centimeter wavelength)





- **>** Broad Band,
- Broad FOV,
- > New technique,
- > Cheap,
- Electric Power or Solar energy
- > Easy Data processing

### SKA科学目标及相关重要问题研讨会 2014年4月16-17日

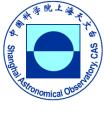








#### **Resources in China**



- National Development and Reform Commission 发改委
  - □ ALMOST, FAST, Antarctic Observatory, QTT
- MOST(Ministry of Science and Technology)
  - ☐ SKA, 21CMA, Tiannai,
- Ministry of finance
  - ☐ SMVA, Tianma
- Chinese Academy of CAS
  - ☐ SMVA, Tianma
- Local government (Shanghai)
  - □ Tianma
- > NSFC
  - □ THz Lab.
- > ???
  - ☐ ChinaART 12X80m at low frequency