

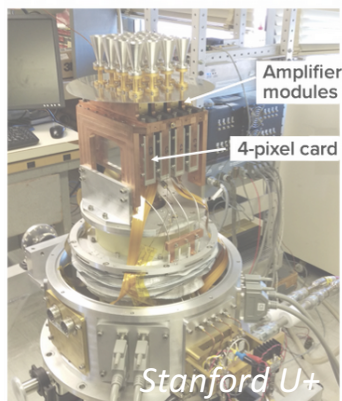


The Green Bank Telescope: Transformational Science for the Next Decade Al Wootten, NRAO

Gargantuan Telescope with enormous collecting area and focal plane.

Goals:

- Populate the focal plane with multibeam instruments
 - Currently have Argus 75-116 GHz spectroscopy with 16 pixels
 - Plan to upgrade to Argus + 144 pixels, 7 GHz IF bandwidth
 - Mustang-2: 223 beams, 4' FoV
 - 7-pixel K-band Feed Array; 18-28 GHz
 - Plan to upgrade to >100 pixels
- Improved metrology to enable daytime observing



The Argus receiver highlighting the amplifier modules at top and the 4 x 4-pixel card array.

