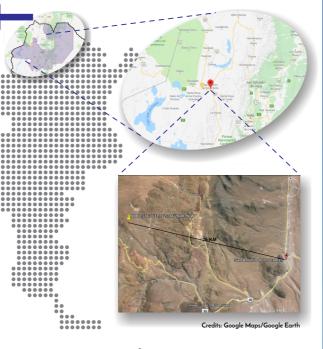


The first module of QUBIC will be placed in Alto Chorillo (Salta, Argentina) 16km from San Antonio de los Cobres. The installation of a second module at the Concordia station in Antarctica is planned.

QUBIC, in its final version, will include 6 telescopes installed on an area of approximately 10,000 m². This region is destined to become an "Astronomical Pole".





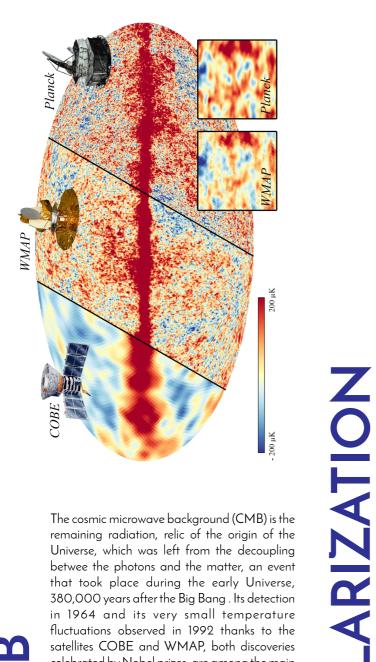
https://www.qubic.org.ar/en/qubic-argentina-english/





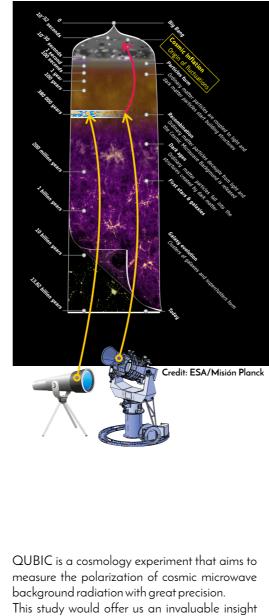
Q&U Bolometric Interferometer for Cosmology

S

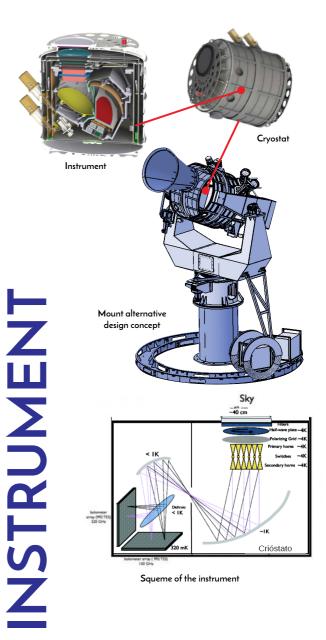


The cosmic microwave background (CMB) is the remaining radiation, relic of the origin of the Universe, which was left from the decoupling betwee the photons and the matter, an event that took place during the early Universe, 380,000 years after the Big Bang. Its detection in 1964 and its very small temperature fluctuations observed in 1992 thanks to the satellites COBE and WMAP, both discoveries celebrated by Nobel prizes, are among the main scientific advances of the 20th century. The deepened studies in the 21st century by the Plank space telescope, have led us to a deeper understanding of the history of our Universe.

C X B



into what happened immediately after the Big Bang; for example, it would allow us to test inflation theories that claim that there was an extremely rapid exponential expansion during the first 10⁻³⁸ seconds of the Universe, an extremely small fraction of time.



The very weak polarized signal of the CMB requires even more complex and sensitive experiments than those developed so far, in order to detect it. To face this challenge, the Collaboration in the QUBIC Project has developed a completely new instrument.