

Media Note:

VERTEX ANTENNENTECHNIK awarded another compelling Radio Telescope

San Diego - Duisburg – A unique and powerful astronomical telescope has been ordered by the University of California, San Diego, on behalf of the Simons Observatory. The telescope will study the Cosmic Microwave Background (CMB). It will be located in the high Atacama Desert of Northern Chile at 5,200 meters above sea level, at a site that already hosts some of the highest-altitude telescopes in the world.

The new Radio Telescope comprises two high precision reflective mirrors with 6 meter diameter in a crossed-Dragone geometry. This configuration enables a very wide, blockage-free field-of-view. The wavelength of the faint cosmic signals to be observed by the telescope is between 1-15 mm. The all sky pointing accuracies are less than 15 arc sec.

The Telescope will be designed and integrated by Vertex Antennentechnik GmbH over the next two years. The design has a high degree of similarity with the CCAT Radio Telescope which was ordered earlier this year. The Telescope will be delivered and installed at the Simons Observatory Site by October 2020.

About [Simons Observatory](#): Simons Observatory (SO) is an ambitious project to study the CMB to address questions on how the universe began, the properties of its contents, the formation of structures under the influence of gravity, and the nature of dark energy. SO was established with a grant from the Simons Foundation and the Heising-Simons Foundation.

About [Simons Foundation](#): The Simons Foundation's mission is to advance the frontiers of research in mathematics and the basic sciences. Its Mathematics and Physical Sciences (MPS) division provides funding for individuals, institutions and science infrastructure in these areas. Co-founded in New York City by Jim and Marilyn Simons, the foundation exists to support basic — or discovery-driven — scientific research undertaken in the pursuit of understanding the phenomena of our world.

About [Heising-Simons Foundation](#): The Heising-Simons Foundation is a family foundation based in Los Altos, California. The Foundation works with its many partners to advance sustainable solutions in climate and clean energy, enable groundbreaking research in science, enhance the education of our youngest learners, and support human rights for all people.

About [Vertex Antennentechnik GmbH](#): VERTEX ANTENNENTECHNIK GmbH (VA) is a worldwide supplier for Ground Stations, Precision Antenna Systems and Radio Telescopes. VA is located in Duisburg, Germany.