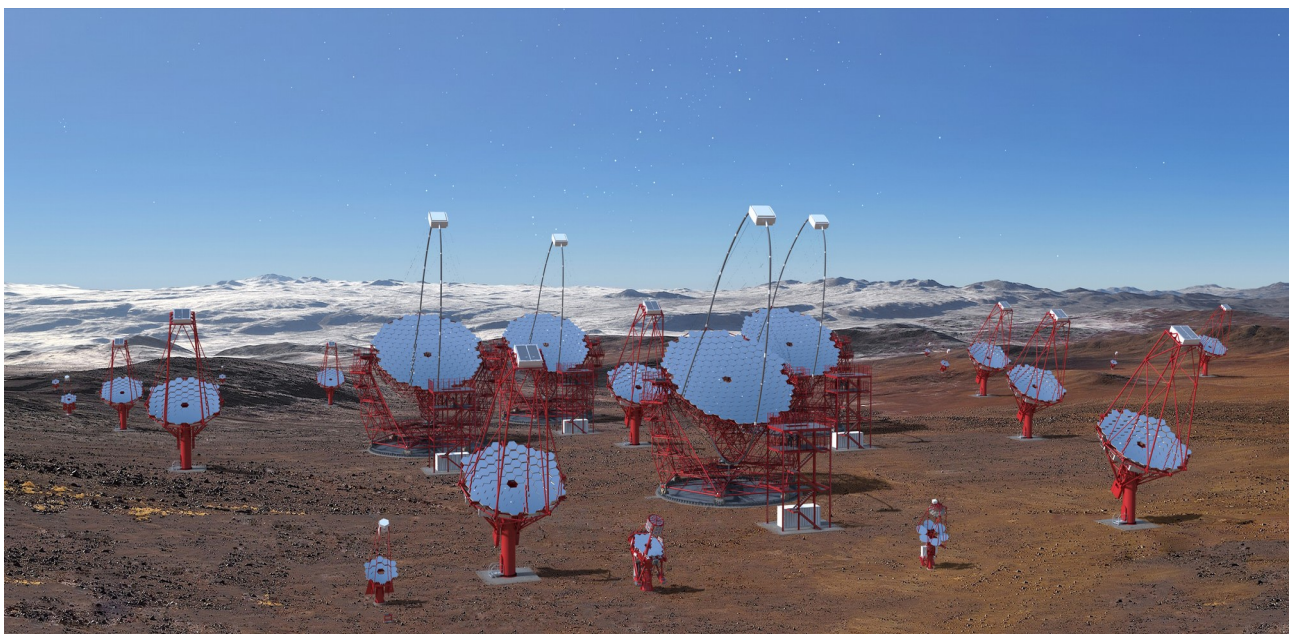
DESY
Physics Seminar

The Scientific Potential of the Cherenkov Telescope Array (CTA).

Gernot Maier (DESY)

Tuesday, 28 February 2017, 16:45 h, DESY Auditorium



The Cherenkov Telescope Array (CTA) is a new and groundbreaking astronomical observatory built to study the Universe at very-high energies. It will detect gamma rays in the energy range from 20 GeV to 300 TeV with unprecedented sensitivity and precision. Observations with the CTA observatory will unveil fascinating new phenomena and address a broad range of scientific questions: from the origin of cosmic rays to the nature of dark-matter particles. The gamma-ray observations will allow to probe environments from the immediate neighbourhood of black holes to the cosmic voids on the largest scales. This talk will review the status of the observatory and discuss in detail the scientific potential of CTA.

- **Coffee, tea and cookies will be served at 16:30h**
- **After the seminar there is a chance for private discussions with the speaker over wine and pretzels**