

Università di Perugia – Dipartimento di Fisica e Geologia

Dottorato in “SCIENZE E TECNOLOGIA PER LA FISICA E LA GEOLOGIA” – XXXIII ciclo

Colloquia Doctoralia

April 19, 2018 - 2:30 pm

Seminar Room (3rd Floor)

Prof. Wolfgang Wild

(CTAO GmbH, Bologna)

“A Large European Astronomical Facility: The Cherenkov Telescope Array”

Abstract

The Cherenkov Telescope Array (CTA) is the next generation ground-based observatory for gamma-ray astronomy at very high energies. With more than 100 telescopes at two sites, CTA will be the world's largest and most sensitive high-energy gamma-ray observatory covering the full sky with a northern array located at the Roque de los Muchachos astronomical observatory on the island of La Palma (Spain) and a southern array near the European Southern Observatory site at Paranal (Chile). Three classes of telescope types spread over a large area are required to cover the full CTA very-high energy range from 20 GeV to 300 TeV. In the presentation we will give a comprehensive overview of the CTA science goals, technical concept, telescope designs and the construction status.

The seminar is open to all interested people