

ECT* Seminar

ANOMALIES IN PARTICLE PHYSICS

April 16, 2025 h. 16:45

ECT* Villa Tambosi, Villazzano



Dr.Andreas Crivellin University of Zurich

While no new particles beyond those of the Standard Model (SM) have been discovered (unequivocally) at the Large Hadron Collider (LHC), there exists a set of interesting "anomalies". These deviations from SM predictions point towards new physics. They range over several orders of magnitude in energy, i.e. from tensions in beta decays to high-energy jets at the LHC, and could guide us towards the construction of a theory superseding the SM. In this talk, I review these anomalies together with possible beyond-the-SM explanations.

ECT* Director: Prof. Ubirajara van Kolck

The ECT* is part of the Fondazione Bruno Kessler. The Centre is funded by the Autonomous Province of Trento, funding agencies of EU Member and Associated states, and by INFN-TIFPA and has the support of the Department of Physics of the University of Trento.

For the organization please contact: Ines Campo – ECT* Secretariat - Villa Tambosi - Strada delle Tabarelle 286 | 38123 Villazzano (Trento) – Italy | Tel.:(+39-0461) 314722, E-mail: inecampo@ectstar.eu or visit http://www.ectstar.eu

SUPPORTING INSTITUTIONS AND PROJECTS





