



UNIVERSITÀ DEGLI STUDI DI TRIESTE

Dipartimento di Fisica

“Life of pi”

or Searching for new properties and rare species of light mesons

Prof. Dr. Stephan Paul

Lunedì 11 Ottobre alle 16:30
Dipartimento di Fisica - Aula A

Abstract

The rich research program of the COMPASS experiment at CERN comprises the longitudinal and transverse spin structure of the nucleon and precision measurements with pions. The presentation will focus on low energy pi-photon interactions and diffraction production of light mesons addressing exotic states. The measurements allow quantitative comparisons with modern calculations using chiral effective field theory. The presentation will also address novel spectroscopic techniques for multi-hadron final states, reveal their analysis power and anticipates applications for future analysis of tau lepton decays at B-factories.



Prof. Dr. Stephan Paul, Technical University of Munich

Professor Paul's research areas are hadron physics and particle physics with neutrons. At TUM he teaches particle and nuclear physics, optics and quantum physics as well as data analysis, among other things.

Professor Paul (*1957) studied physics at the University of Bonn and received his doctorate from the University of Heidelberg. He did research at the Max Planck Institute for Nuclear Physics in Heidelberg and was a research fellow at CERN, where he is still active as a visiting scientist. In addition to CERN, he also works at the Japanese research centre KEK, the MLZ in Garching and the ILL in Grenoble. From 2006 to 2018 he coordinated the Cluster of Excellence "Origin and Structure of the Universe" at the TUM, since 2019 he is the co-coordinator of the Cluster of Excellence ORIGINS.