

HYBRID WORKSHOP

111

## EXOTICO: EXOTIc atoms meet nuclear Collisions for a new frontier precision era in low-energy strangeness nuclear physics

Trento, 17 - 21 October 2022

The EXOTICO workshop will address the most important open issues in the field of the strong interactions of hadrons with strangeness content. This field has recently received new experimental input from facilities ranging from low-energy to multi-TeV environments and heavy ion collisions. Such data is enabling updated calculations and precise tests of the theoretical approaches describing the hadronic interactions. The present status and the open topical questions will be discussed for the first time in a unique framework. Among the main issues stand out: the properties of kaonic nuclear matter, the nature of the Lambda(1405), the description of the hadronic interactions starting from first principles, and the possible presence of strangeness in the core of the Neutron Stars. The new avenues that are being opened by the high precision data together with new theoretical approaches allow us to enter a new era in the understanding of the strong interaction.

## **Organizers**

Otón **Vázquez Doce** (LNF – INFN), Catalina **Curceanu** (LNF-INFN), Ramos **Angels** (Universitat de Barcelona), Johann **Zmeskal** (SMI – Vienna), Jiri **Mares** (Nuclear Physics Instute CAS, Rez)

## **Key Speakers**

Alessandro **Scordo** (INFN-LNF), Kristian **Piscicchia** (Centro Fermi, Roma), Laura **Fabbietti** (TU – Munich), Tetsuo **Hyodo** (Tokyo Metropolitan University), Akira **Ohnishi** (Kyoto University), Abraham **Gal** (Racah Institute of Physics, The Hebrew University)

## **Director of the ECT\*: Professor Gert Aarts**

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: Barbara Gazzoli – ECT\* Secretariat - Villa Tambosi - Strada delle Tabarelle 286 | 38123 Villazzano (Trento) – Italy | Tel.: (+39-0461) 314763, E-mail: gazzoli@ectstar.eu or visit <a href="http://www.ectstar.eu">http://www.ectstar.eu</a>











