

# **Ecole Thématique PhyNuBE : Première rencontre de Physique Nucléaire de Basse Energie 2021**

**dimanche 5 décembre 2021 - vendredi 10 décembre 2021**

## **Plenary session program and workshops**

Program and workshops.

## **Structure and dynamics of weakly bound nuclei**

Breaking of mirror symmetries, 2p clusters in the Ikeda conjecture and possible astrophysical implications : François De Oliveira (GANIL)

Alpha clustering and quasi-molecular states at thresholds: Jean-Paul Ebran (CEA-DAM)

Study of alpha clusters using KO and transfer experiments : Didier Beaumel (IJCLab)

Short talks and/or posters will be given by PhD students post-docs

## **Nuclear shapes and symmetries at the extremes in spin and mass**

Pairing in nuclei: some experimental aspects : Gilles de France (GANIL)

Electromagnetic transitions, lifetime measurements and the Plunger technique : Joa Ljungvall (IJCLab, Orsay)

Symmetry breaking and restoration for the theoretical description of nuclei : Michael Bender (IP2I Lyon) TBC

Short talks and/or posters will be given by PhD students post-docs

## **New frontiers in microscopic description of nuclei**

Introduction to mean field theory : Alexandre Tichai (CEA Saclay)

Short talks and/or posters will be given by post-docs: Lorenzo Contessi, Raphaël Lasserri, Mario Sanchez

## **Nuclear physics in the framework of astrophysics**

The r-Process (title TBD) : Stéphane Goriely (IAA, Bruxelles)

Neutron stars observation : Sébastien Guillot (IRAP, Toulouse)

Short talks and/or posters will be given by PhD students post-docs

## **Communication Workshop**

## **Competence Workshop**

## **Computing Workshop**

## **Instrumentation, Computing and general common R&D**

## **Round tables over a drink**

Thématiques des GT du GdR RESANET animées par les jeunes chercheurs, post-docs et doctorants

## **Conclusions and feedback from participants**