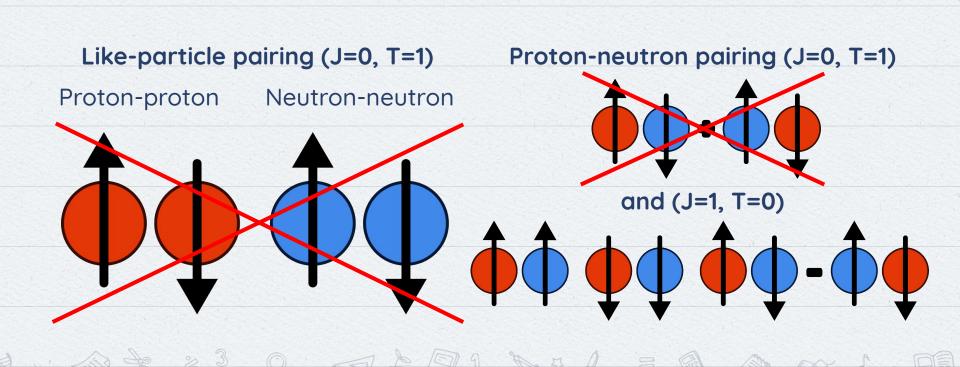
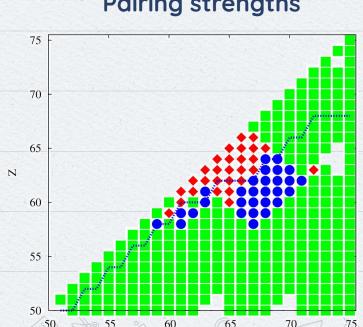


NUCLEAR PHYSICS MOTIVATIONS



THEORETICAL PREDICTIONS



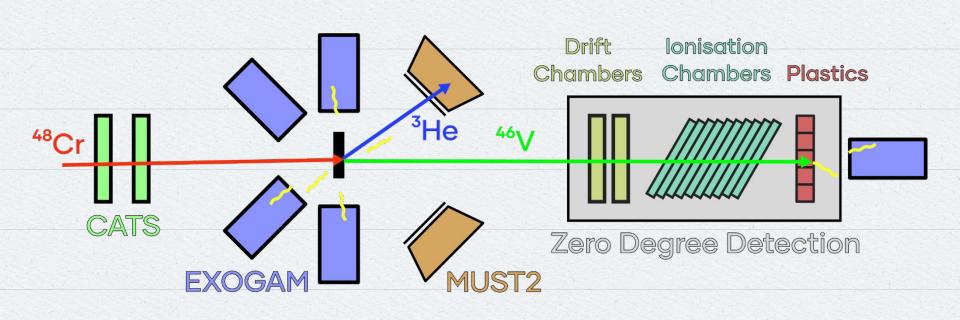


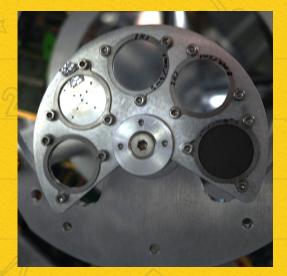
HFB Hamiltonian

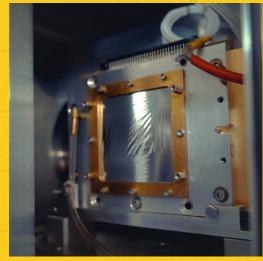
$$H=\sum_i \langle i|H_{sp}|j\rangle a_i^\dagger a_j +\sum_{i>j,k>l} \langle ij|v|kl\rangle a_i^\dagger a_j^\dagger a_k a_l$$
 Single particle Pairing interaction

Energy

EXPERIMENTAL SETUP

















MY EXPERIMENTS MAP

USA, Michigan State University, Facility for Rare Isotope Beams

Studying 26Al abundance in the universe



44

Switzerland, CERN, ISOLDE

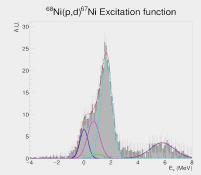
Double alpha decay of heavy isotopes

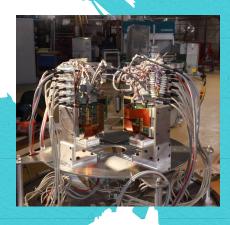
2 nuclear structure experiments

d'Ions Lourds

France, Caen, Grand

Accélérateur National





8



Ganil Community Meeting

Conference about nuclear physics and future perspectives in GANIL.

October 2022, Caen

Euroschool on Exotic Beams

Summer school covering the main topics of nuclear physics done with exotic beams:

X Nuclear structure

* Reactions

Astrophysics

X Lasers

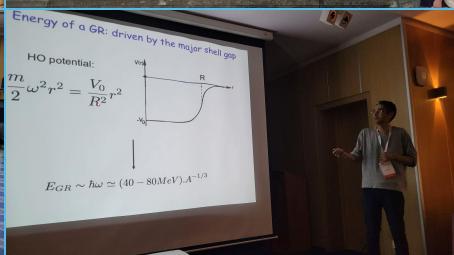
August 2023, Sinaia, Romania













Teaching tutorials

Physics tutorials in Paris-Saclay University (1st and 2nd year):

Mechanics

X Electromagnetism

X Calculus

NPTOOL software

Contributing to open-access software for nuclear physics simulations and analysis.



