

Internship in experimental nuclear physics

Study of clustering produced in $^{58,64}\text{Ni} + ^{58,64}\text{Ni}$ @ 32 MeV/nucleon reactions

The aim of this internship is to study α -clustering in $^{58,64}\text{Ni} + ^{58,64}\text{Ni}$ @ 32 MeV/nucleon reactions in order to derive information on their structural properties but also on the evolution of the probability of α -clustering with the neutron richness of the system. The experiment has been performed at GANIL with the FAZIA-INDRA setup.

The student will be involved in the analysis of the 2-, 3-, and 4- α correlations produced in this experiment. (S)he will also be involved in setting up new experiments with the same configuration, E889_23.

Expected skills

root software data analysis, ability to work in team

This work can be pursued by a [PhD-thesis](#)

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