



AGATA@GANIL Status report

AGATA 2021

The GANIL Campaign organization





The AGATA campaign at GANIL has been extend to end of June 2021

Each GANIL PAC has a "PrePac" workshop with a specific call: AGATA Collaboration Meeting

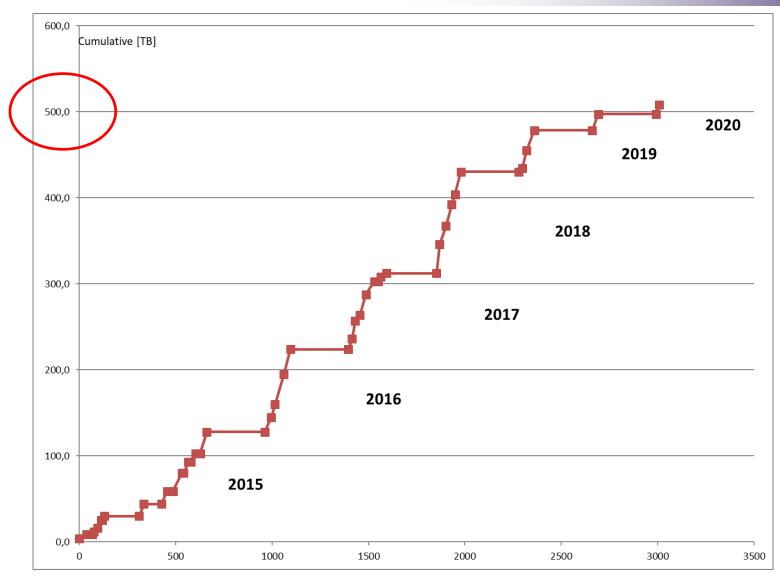
- ✓ 1st PAC in 2014 : VAMOS (10 experiments approved)
- ✓ 2nd PAC in 2015 : VAMOS || NEDA (10 experiments approved)
- ✓ 3rd PAC in 2016: NEDA (6 experiments approved)
- ✓ 4th PAC in 2017: Fully opened : 2(1) VAMOS (MUGAST) approved
- 5th PAC in 2018: MUGAST (2 experiments approved)
- 6th PAC in 2019: MUGAST (1 experiment approved)
- 7th PAC in 2020 : VAMOS heavy ions (2 experiments re-approved)
- ✓ 8th PAC in 2021: call in February –without AGATA

AGATA will leave GANIL in summer 2021 after the run

927 UT have been already approved 762 UT have been performed over 27 experiments (36 weeks of beam on Target)

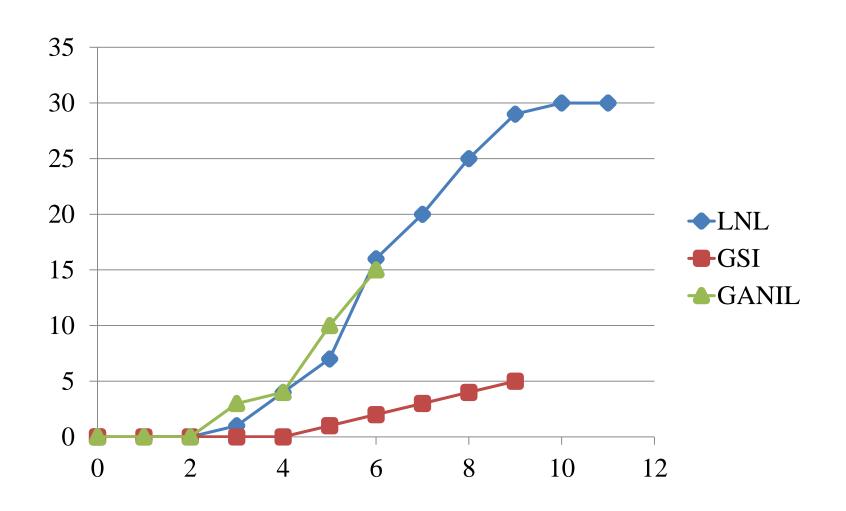






Published papers



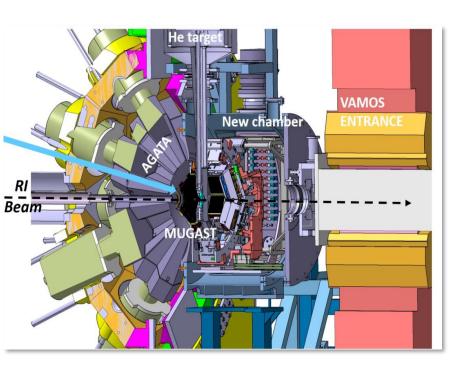


MUGAST campaign 2019-2020-2021





Nucleons transfer spectroscopy using the SPIRAL1 ISOL beams



Nuclear Astrophysics: spectroscopic factors of relevant resonances for nucleosynthesis studies in radiative capture reactions: (⁶Li,d), (³He,d), (d,p)

Shell evolution: spectroscopic factors, s.p. energies (d,p), (t,p), (³He,n) n-p pairing, clusterization

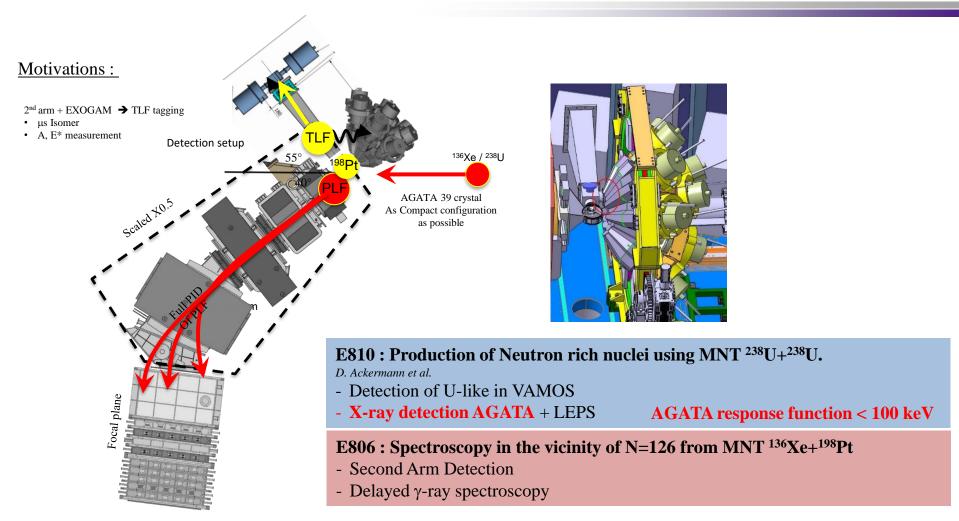
Lifetime measurement after single nucleon transfer

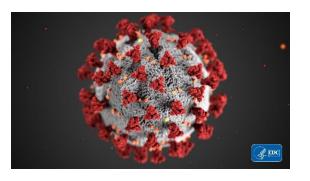
2018,2019 call for proposal Start of the campaign in April 2019

Campaign manager : M. Assié (IPNO)

AGATA + VAMOS 2021 – Heavy Ions













All the facility was shut-down

Half of AGATA was warmed-up in a controlled way

Most damaged by neutrons

ATC5 Position 1 : b002, $c009 \rightarrow Sent$ to Mirion

ATC7 Position 2: a006, b013, c006 \rightarrow Sent to Mirion;

Annealed and results shown

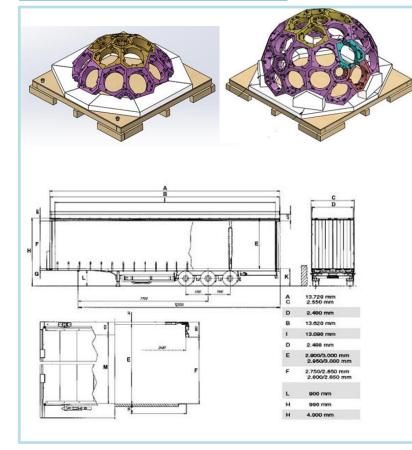
ATC3, Position $7 \rightarrow$ Cryostat Annealing done ATC4 Position 13 \rightarrow Cryostat Annealing done

ATC10, ATC12 \rightarrow put back in the array in autumn

ATC1 and ATC15 delivered by IPHC just before Christmas

 \rightarrow 39 crystals for 2021 at the best

- Preparation to the Move



2021



Beam started on the 9th of March with re-scheduling of e793s ⁴⁷K(d,p) MUGAST (UK

