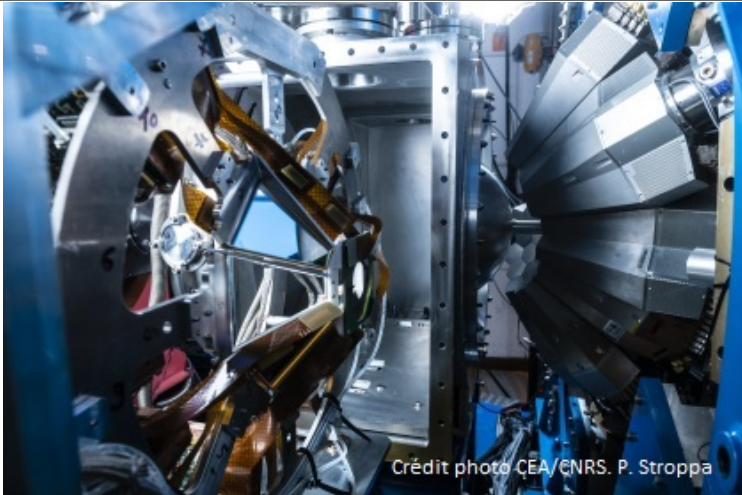


Commissioning of AGATA

2018/2019



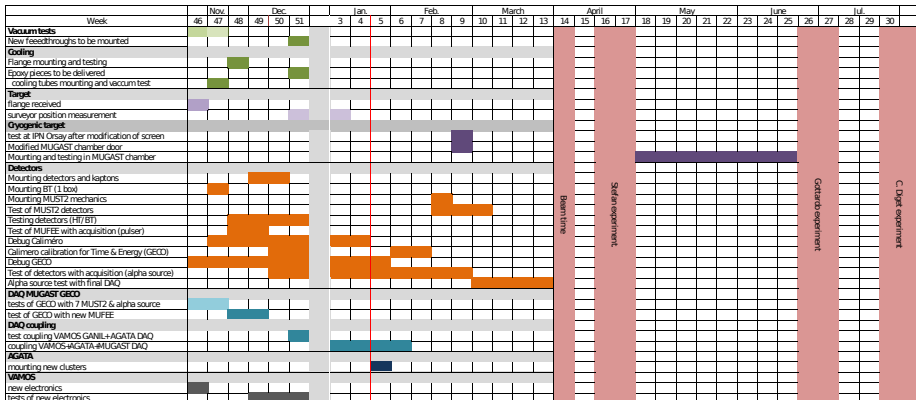
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Crédit photo CEA/ENRS. P. Stroppa

Transition from AGATA+DIAMANT+NEDA+NWall to MUGAST

- ▶ Planning of the installation and test of MUGAST started last year
courtesy of M. Assié

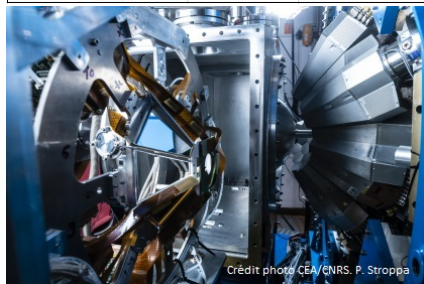


AGATA+MUGAST+VAMOS

Successful commissioning April 2019

- ▶ Neutron-transfer reaction
 $^{18}\text{O}(d,p)^{17}\text{O}$
- ▶ Known reaction
- ▶ Check the setup
- ▶ Verify the efficiencies of all components

	16O(d,p)17O(1/2+) @6 MeV/u	
Beam (pps)	1,00E+05	1,00E+07
Number of Uts	3	1
CD2 target (mg/cm2)	1	0,5
s.p. cross section (mb)	52	52
Spec. factor	0,9	0,9
Nreactions	30443	507378
Ndetected (p)	11085	184750
Ndetected (p+g)	1109	18475

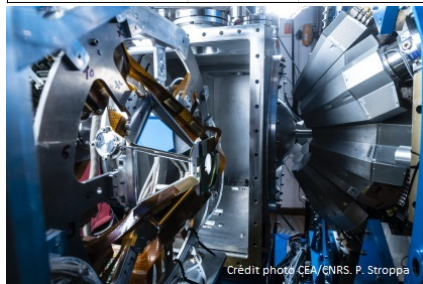


AGATA+MUGAST+VAMOS

Successful commissioning April 2019

- ▶ Neutron-transfer reaction
 $^{18}\text{O}(d,p)^{17}\text{O}$
- ▶ Known reaction
- ▶ Check the setup
- ▶ Verify the efficiencies of all components
- ▶ Details later **Presentation by M. Assié**

	16O(d,p)17O(1/2+) @6 MeV/u	
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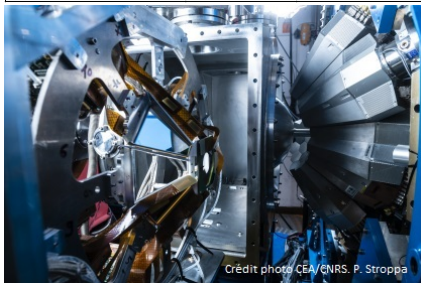
AGATA+MUGAST+VAMOS

Successful commissioning April 2019

- ▶ Neutron-transfer reaction
 $^{18}\text{O}(d,p)^{17}\text{O}$
- ▶ Known reaction
- ▶ Check the setup
- ▶ Verify the efficiencies of all components

- ▶ Preliminary results **Presentation by A. Raggio**

	16O(d,p)17O(1/2+) @6 MeV/u	
Beam (pps)	1,00E+05	1,00E+07
Number of Uts	3	1
CD2 target (mg/cm2)	1	0,5
s.p. cross section (mb)	52	52
Spec. factor	0,9	0,9
Nreactions	30443	507378
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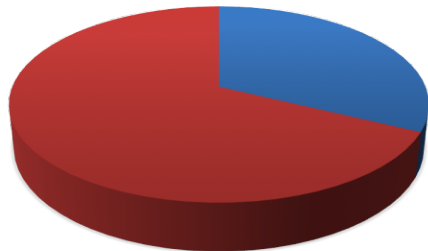
GANIL next year

- ▶ Not yet decided

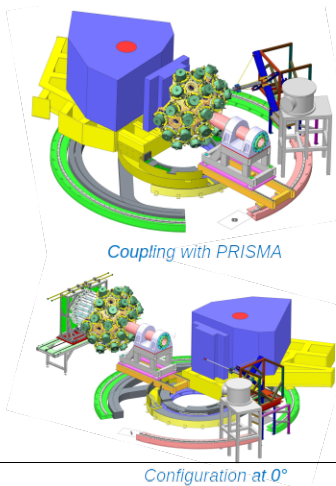
Transition from Ganil to LNL

- LOI summery Presentation on Tuesday from J.J. Valiente Dobón

Setups



■ PRISMA
■ Zero degrees



- ▶ Many different complementary devices possible:
 - ▶ PRISMA
 - ▶ GRIT
 - ▶ NEDA
 - ▶ EUCLIDES
 - ▶ SPIDER
 - ▶ RFD
 - ▶ e-Conversion Detector
 - ▶ Cryogenic target
 - ▶ FATIMA
 - ▶ PARIS
 - ▶ Hector++
 - ▶ etc...
- ▶ Planning has to start when first campaign is decided

Conclusions

- ▶ Transition to AGATA+MUGAST+VAMOS campaign successful
- ▶ Tests with radioactive sources and beam successful
- ▶ Analysis of the MUGAST+AGATA+VAMOS Commissioning Experiment still ongoing

- ▶ Transition to AGATA+MUGAST+VAMOS campaign successful
- ▶ Tests with radioactive sources and beam successful
- ▶ Analysis of the MUGAST+AGATA+VAMOS Commissioning Experiment still ongoing
- ▶ **LNL installation(s) commissioning depends on the setups and will be discussed next year**