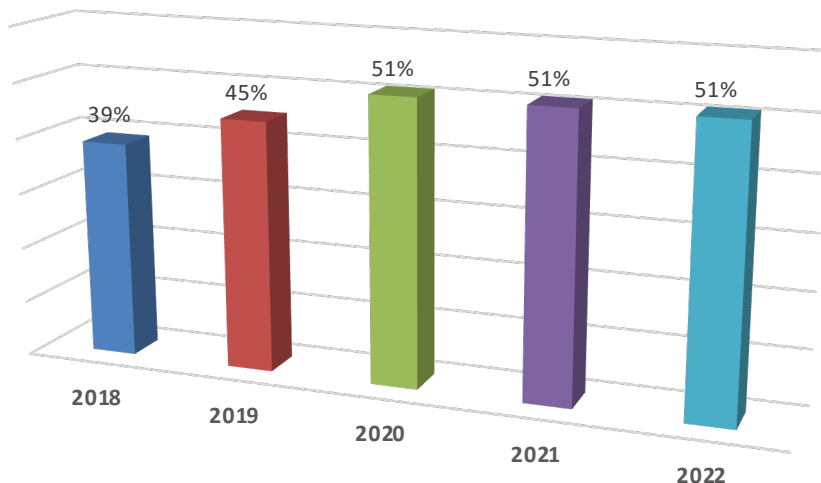




# ***Welcome to Colloque GANIL 2023!***

Some additional messages from GANIL management

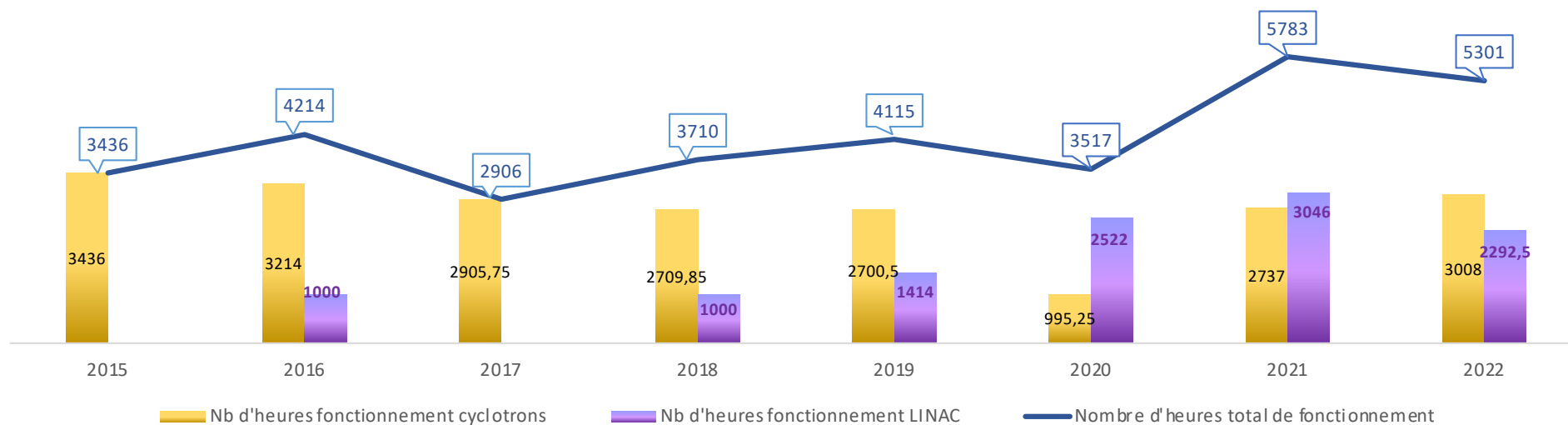
Taux d'acceptation temps de faisceau  
suite évaluation par le PAC (en UT)- Cyclotrons et LINAC




But :  
100% of acceptance on NFS

There is room for more  
beam-time requests !

Nombre d'heures de fonctionnement du GANIL (*temps calendaire*)


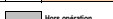

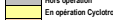

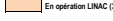


# Calendrier de fonctionnement prévu pour 2024

	<b>CALENDRIER DE FONCTIONNEMENT 2023 V2</b>	GANIL 00295 08/11/2022
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PREMIER SEMESTRE 2023													
JANVIER	FEVRIER		MARS		AVRIL		MAI		JUIN				
dim 01			mer 01		sam 01		dim 01	Férié	16	jeu 01			
lun 02		1	jeu 02		dim 02		mar 02			ven 02			
mar 03		ven 03			ven 03		lun 03	14	mer 03				
mer 04		sam 04			mar 04		jeu 04		dim 04				
jeu 05		dim 05			dim 05		ven 05		lun 05				
ven 06		lun 06		4	lun 06	Cyclotrons	18	jeu 06		mar 06			25
sam 07		mer 07			ven 07		dim 07		jeu 07				
dim 08		mer 08			sam 08		lun 08		19	jeu 08			
lun 09		jeu 09	2		jeu 09		mar 09			ven 09			
mar 10		ven 10			lun 10		mer 10			sam 10			
jeu 11		sam 11			mer 11		jeu 11			dim 11			
ven 12		dim 12			dim 12		ven 12			lun 12			24
sam 13		lun 13	7		jeu 13		sam 13			mar 13			
dim 14		mar 14			ven 14		dim 14			mer 14			
lun 15		mer 15			sam 15		lun 15		Maintenance	20	jeu 15		
mar 16		jeu 16	3		jeu 16		dim 16		Maintenance		ven 16		
mer 17		ven 17			lun 17		mer 17		Maintenance		dim 17		
jeu 18		sam 18			sam 18		jeu 18		Maintenance		dim 18		23
ven 19		dim 19			mer 19		ven 19		Maintenance		lun 19		29
sam 20		lun 20		8	lun 20		jeu 20		sam 20		mar 20		
dim 21		mer 21			ven 21		dim 21			mer 21			
lun 22		jeu 22			sam 22		lun 22		Cyclotrons	21	jeu 22		
mar 23		ven 23	4		jeu 23		dim 23			mar 23			
jeu 24		dim 24			mer 24		jeu 24			ven 24			
ven 25		lun 25			jeu 25		dim 25			lun 25			
mer 26		mer 26			mer 26		ven 26			lun 26			26
jeu 27		jeu 27	8		lun 27		jeu 27			mer 27			
ven 28		mer 28			ven 28		dim 28			jeu 28			
dim 29		jeu 29			mer 29		sam 29			lun 29			
lun 30		ven 30	3		jeu 30		dim 30			mer 30			
mar 31		ven 31			ven 31		mer 31			ven 31			

DEUXIEME SEMESTRE 2023													
JUILLET	A O U T		SEPTEMBRE		OCTOBRE		NOVEMBRE		DECEMBRE				
sam 01			mer 01	Maintenance	ven 01		dim 01		mer 01		ven 01		
dim 02			mer 02	Maintenance	sam 02		lun 02		jeu 02		sam 02		
lun 03		27	jeu 03	Maintenance	dim 03		ven 03		mer 03		dim 03		
mar 04			ven 04	Maintenance	lun 04		mer 04		sam 04		lun 04		49
mer 05			sam 05		mer 05		jeu 05		dim 05		mer 05		
jeu 06			dim 06		mer 06		lun 06		jeu 06		dim 06		
ven 07			lun 07	Maintenance	jeu 07		sam 07		mar 07		jeu 07		
sam 08			mer 08	Maintenance	ven 08		dim 08		mer 08		ven 08		
dim 09			mer 09	Maintenance	sam 09		lun 09		jeu 09		sam 09		
lun 10			jeu 10	Maintenance	dim 10		mer 10		ven 10		dim 10		
mar 11			ven 11	Maintenance	lun 11		jeu 11		sam 11		lun 11	Maint. Elec. Cyclotrons	50
mer 12			sam 12		mer 12		jeu 12		dim 12		mer 12	Maint. Elec. Cyclotrons	
jeu 13			dim 13		mer 13		ven 13		lun 13		jeu 13	Maint. Elec. Cyclotrons	
ven 14			lun 14	Maintenance	jeu 14		mar 14		sam 14		mer 14	Maint. Elec. Cyclotrons et DDR	
sam 15			mer 15		ven 15		dim 15		mer 15		ven 15	Maint. Elec. Cyclotrons et DDR	
dim 16			mer 16	Maintenance	sam 16		lun 16		jeu 16		sam 16	CEP A.U.	
lun 17			jeu 17	Maintenance	dim 17		mer 17		ven 17		dim 17		
mar 18			ven 18	Maintenance	lun 18		jeu 18		sam 18		lun 18	Maint. Elec. Cyclotrons et LINAC	51
jeu 19			sam 19		mer 19		dim 19		mer 19		lun 19	Maint. Elec. Cyclotrons et LINAC	
ven 20			dim 20		mer 20		jeu 20		lun 20		mer 20	Richauf. Linac	47
dim 21			lun 21	Maintenance	jeu 21		sam 21		mer 21		jeu 21	Maint. Elec. Cyclotrons et LINAC	
sam 22			mer 22	Maintenance	ven 22		dim 22		mer 22		ven 22	Maint. Elec. Cyclotrons et LINAC	
dim 23			mer 23	Maintenance	sam 23		lun 23		jeu 23		sam 23	Richauf. Linac	
lun 24	Maintenance	30	jeu 24	Maintenance	dim 24		mer 24		ven 24		jeu 24	Richauf. Linac	
mer 25	Maintenance		ven 25	Maintenance	lun 25		mer 25		sam 25		lun 25		52
jeu 26	Maintenance		sam 26		mer 26		jeu 26		dim 26		mer 26		
ven 27	Maintenance		dim 27		ven 27		lun 27		jeu 27		dim 27		
dim 28	Maintenance		lun 28	Linac	35		jeu 28		mer 28		jeu 28		
lun 29			mer 29		dim 29		jeu 29		ven 29		mer 29		
mar 30			jeu 30		lun 30		mer 30		sam 30		jeu 30		
dim 31			jeu 31		mer 31		lun 31		jeu 31		dim 31		

Nombre d'heures de fonctionnement:	4823 h
CYCLOTRONS:	3968 h de fonctionnement
LINAC:	1795 h de fonctionnement

Redacteur	Verificateur	Approbateur
CCP	DOD	DPHY
		DSTA
		DIR
P. Anger	H. Fränberg-Delshaye	G. De France
		N. Ménard
		NP. Roussel Chomez

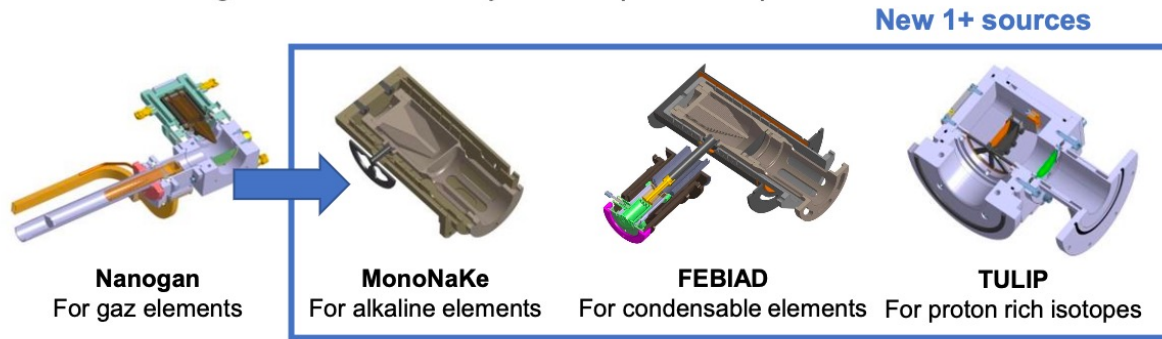
	<b>CALENDRIER DE FONCTIONNEMENT 2024 V0.3</b>	GANIL 00295 11/07/2023
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PREMIER SEMESTRE 2024													
JANVIER	FEVRIER		MARS		AVRIL		MAI		JUIN				
lun 01		1	jeu 01		ven 01		lun 01	14	mer 01				
mar 02		ven 02			ven 02		mar 02		jeu 02				
jeu 03		sam 03			sam 03		dim 03		mer 03				23
mer 04		dim 04			dim 04		lun 04		jeu 04				
ven 05		lun 05		6	lun 05	Cyclotrons	16	mer 05		dim 05			
sam 06		mer 06			mer 06		jeu 06		ven 06		lun 06		19
dim 07		jeu 07			jeu 07		mer 07		dim 07		ven 07		
lun 08		2	jeu 08		ven 08		lun 08		15	mer 08			
mer 09		ven 09			sam 09		mer 09		jeu 09		dim 09		
jeu 10		sam 10			dim 10		mer 10		ven 10	Maintenance		lun 10	24
ven 11		dim 11			lun 11		jeu 11		11	jeu 11		mer 11	
dim 12		lun 12			7	mar 12		ven 12		dim 12		mer 12	
sam 13		mer 13			mer 13		sam 13		lun 13	Maintenance	20	jeu 13	
dim 14		jeu 14			jeu 14		dim 14		mer 14	Maintenance		ven 14	
lun 15		3	jeu 15		ven 15		lun 15		16	mer 15	Maintenance	sam 15	
mar 16		ven 16			sam 16		mer 16		jeu 16	Maintenance		dim 16	
mer 17		sam 17			dim 17		mer 17		lun 17	Maintenance		lun 17	25
jeu 18		dim 18			lun 18		jeu 18		12	jeu 18	sam 18	mer 18	
ven 19		lun 19		8	mar 19		ven 19		dim 19		mer 19		
sam 20		mer 20			jeu 20		sam 20		lun 20	21	jeu 20		
dim 21		mer 21			dim 21		mer 21		jeu 21		dim 21	Cyclotrons	ven 21
lun 22		4	jeu 22		ven 22		lun 22		17	mer 22	sam 22	dim 22	
mar 23		ven 23			sam 23		mer 23		jeu 23		dim 23		
mer 24		sam 24			dim 24		mer 24		lun 24		lun 24		26
jeu 25		dim 25			lun 25		jeu 25		13	jeu 25	sam 25	mer 25	
ven 26		lun 26		9	mer 26		ven 26		14	jeu 26	dim 26	mer 26	
sam 27		mer 27			jeu 27		sam 27		15	jeu 27	lun 27	jeu 27	22
dim 28		jeu 28			mer 28		jeu 28		16	jeu 28	mer 28	ven 28	
lun 29		5	jeu 29		ven 29		mer 29		17	mer 29	sam 29	ven 29	
mar 30					sam 30		mer 30		18	mer 30	dim 30	dim 30	
mer 31					dim 31		jeu 31		19	ven 31		dim 31	

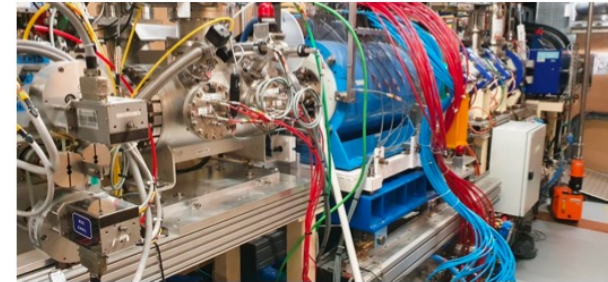
DEUXIEME SEMESTRE 2024													
JUILLET	A O U T		SEPTEMBRE		OCTOBRE		NOVEMBRE		DECEMBRE				
lun 01			jeu 01	Maintenance	dim 01	Cyclotrons	Linac	36	mer 01		dim 01		
mar 02			ven 02	Maintenance	lun 02		sam 02		sam 02		lun 02		49
mer 03			sam 03	Maintenance	mer 03		jeu 03		dim 03		mer 03	Maint. + Richauf. Linac	
jeu 04			dim 04	Maintenance	mer 04		ven 04		lun 04	Linac	45	mer 04	Maint. + Richauf. Linac
ven 05			lun 05	Maintenance	jeu 05		sam 05		mer 05		jeu 05	Maint. + Richauf. Linac	
sam 06			mer 06	Maintenance	ven 06		dim 06		mer 06		ven 06	Maint. + Richauf. Linac	
dim 07			jeu 07	Maintenance	sam 07		lun 07		41	jeu 07	sam 07		
lun 08			mer 08	Maintenance	dim 08		mer 08		ven 08		dim 08		
mer 09			ven 09	Maintenance	lun 09		jeu 09		37	mer 09	sam 09	Maintenance	50
jeu 10			sam 10	Maintenance	mer 10		jeu 10		38	jeu 10	dim 10	Maintenance	
ven 11			dim 11	Maintenance	mer 11		lun 11		39	jeu 11	46	mer 11	Maintenance
dim 12			lun 12	Maintenance	jeu 12		sam 12		40	mer 12	jeu 12	Maintenance	
sam 13			mer 13	Maintenance	ven 13		dim 13		41	mer 13	dim 13	Maintenance	
dim 14			jeu 14	Maintenance	sam 14		lun 14		42	jeu 14	sam 14	CEP A.U.	
lun 15			29	jeu 15	Maintenance	dim 15	ven 15		43	mer 15	dim 15		
mar 16			ven 16	Maintenance	lun 16		jeu 16		44	mer 16	lun 16	Maintenance	51
mer 17			sam 17	Maintenance	mer 17		jeu 17		45	jeu 17	dim 17	Maintenance	
jeu 18			dim 18	Maintenance	mer 18		ven 18		46	jeu 18	lun 18	Maintenance	
ven 19			lun 19	Maintenance	jeu 19		sam						

# SPIRAL1 upgrade

- New target Ion Source Systems (FEBIAD)



- The charge breeder



Elements for which we **observed** radioactive isotope

Group	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1 H																	2 He
2	3 Li	4 Be											5 B	6 C	7 N	8 O	9 F	10 Ne
3	11 Na	12 Mg											13 Al	14 Si	15 P	16 S	17 Cl	18 Ar
4	19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr
5	37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe
6	55 Cs	56 Ba	* 71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn
7	87 Fr	88 Ra	* 103 Lr	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Cn	113 Nh	114 Fl	115 Mc	116 Lv	117 Ts	118 Og
			* 57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb		
			* 89 Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No		

50 new isomers/isotopes  
With intensities suitable for  
acceleration

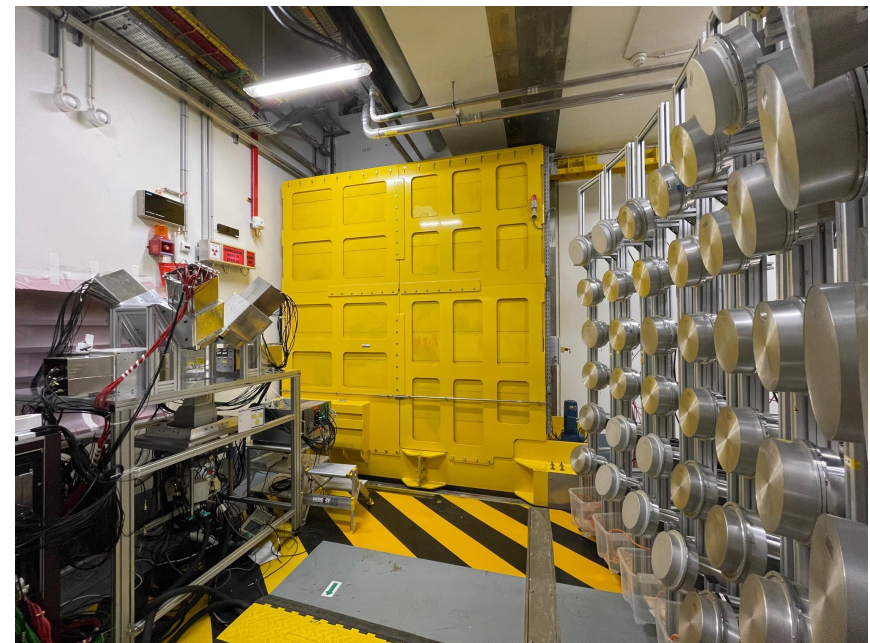
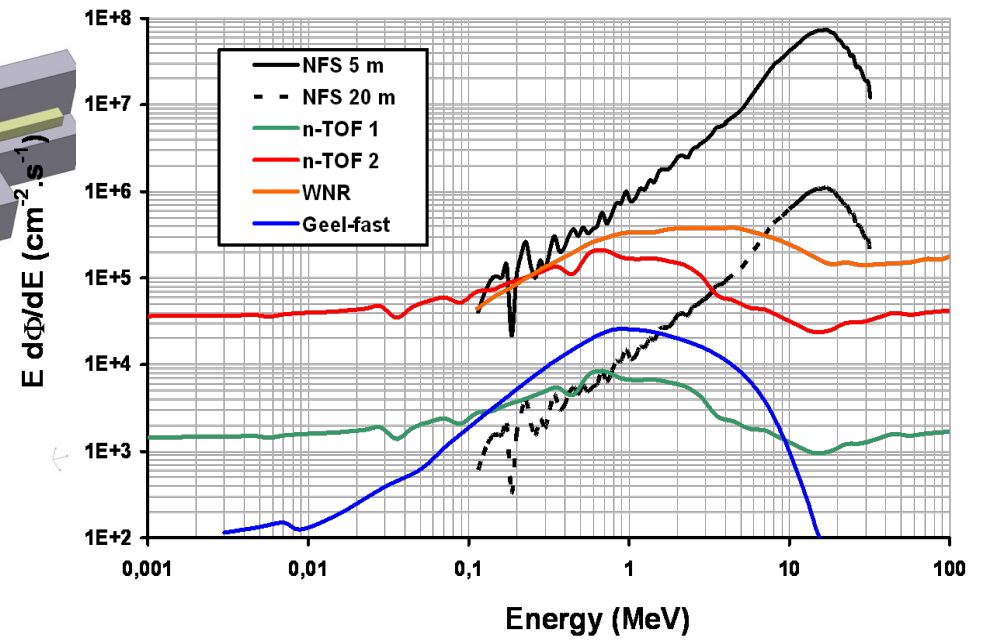
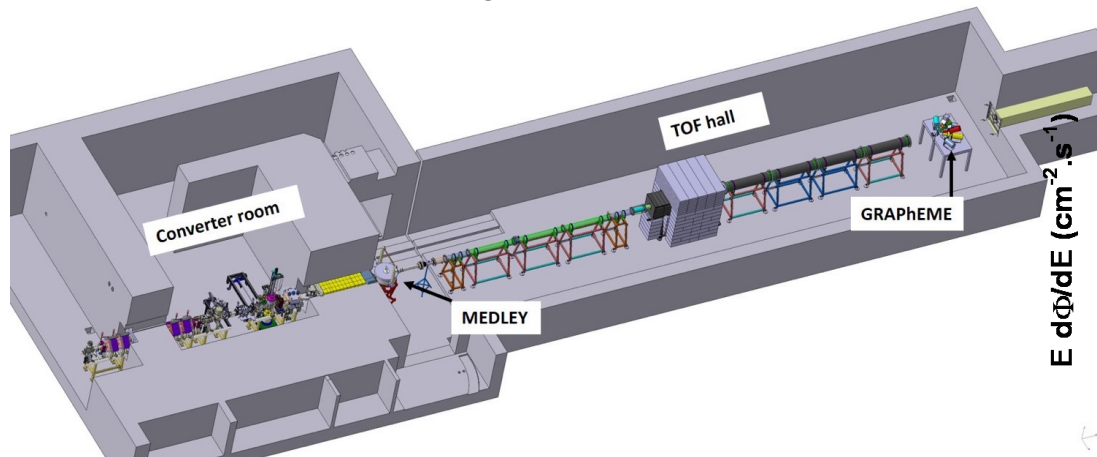
See PAC call for  
further details

Questions, requests to  
Pierre Delahaye  
**deadline September 28<sup>th</sup>**



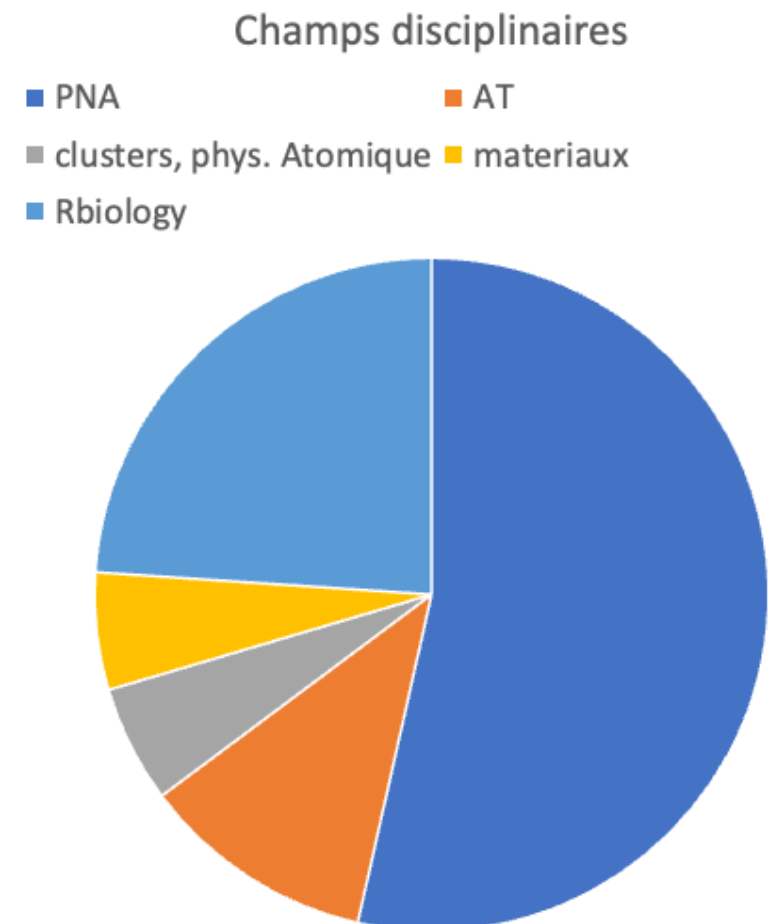
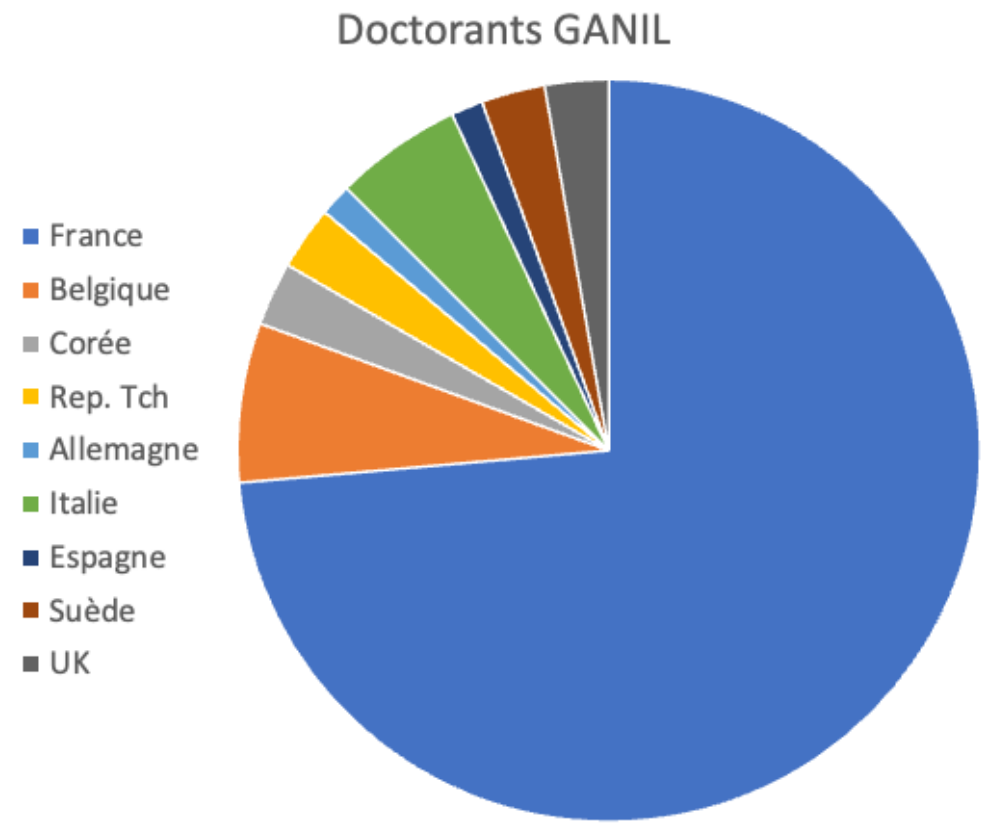
# NFS is an exceptional neutron facility

High neutron flux and good complementarity with other facilities



## Enquiry from GANIL management to experiment spokespersons (70 % of spokespersons responded)

> 80 PhDs



## Enquiry on the GANIL portal

*Dear Ph.D students of the GANIL user community,*

*GANIL intends to create a young users' group with the aim of gathering together and enhance the visibility of your careers and important contribution to GANIL science. One of the first actions is to include an early-career researchers' representative as part of the Ganil Users Executive Committee (GUEC) to participate in the decision-making processes and activities planned at GANIL.*

*The representative will be in charge of gathering feedback from early career researchers in their fields and ensure the needs are met.*

*This is an excellent opportunity for young users to get involved and build networks among peers. A detailed presentation will be given at the GANIL colloque in Soustons: <https://indico.in2p3.fr/event/28102/>*

*... Less than 30 answers from PhDs....*

***From now, the file filled by the spokesperson before starting an experiment will include the information of the PhD associated to the experiments***

*Any PhD interested ???*

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Stays between 2 and 6 month  
Preparing an experiment  
Analysing an experiment  
Discussing future programmms

....

<https://www.ganil-spiral2.eu/2023/06/01/call-for-visiting-scientist-program-of-ganil/>

2022 8 candidates 1 venue for 2 Months

2023 15 candidates 6 venues 24 Months

2024 13 candidates 7 venues for a total of 17 Months stay in GANIL



2022

Lund University, Sweden

2023

University of Santiago de Compostella, Spain

Indiana University, USA

Western Michigan University, USA

VEC, Kolkata, India

Lanzhou, China

CENS, Daejeon, Korea

2024

Florida State University, USA

Tennessee Technical University, USA

Western Michigan University, USA

Lanzhou, China

Brookhaven National Laboratory, USA

KU Leuven, Belgium

RIKEN Nishina Center, Japan

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# GANIL Publication policy

## Publication guide for GANIL Users

If you are granted with GANIL beam-time you are committed to ....

- Publish with open-access

- Send reference and abstract to [publication@ganil.fr](mailto:publication@ganil.fr)

Within the publication mention ...

- The beamline on which you obtained data

- The DOI for data that is given to you when running the experiment

- Acknowledge the GANIL staff and CIMAP staff

Details :

<https://www.ganil-spiral2.eu/wp-content/uploads/2022/07/GANILPublicationPolicyJuly22.pdf>

# Associated researcher Status

Permanent researcher, Phd or post-doctoral fellow, engineer or technician working in an external laboratory, and strongly committed to scientific field or project of GANIL.

Length : 3 years renewable

## Rights :

- Permanent badge to access GANIL. Dedicated office, private or shared
- GANIL email address; intranet access
- If needed, access in controlled area and medical follow-up by GANIL doctor
- Access to the canteen at low rate
- Invitation to the meetings, workshops etc... Organised by the group to which the person is attached
- Participation to funding calls (ANR, Region, Europe,...)
- May solicit GANIL funds to fund the dedicated project

## Duties

- Mention the status when giving a presentation in seminars or in publications related to GANIL projects
- Commit a significant time to the project or to the GANIL experiments
- If possible, be present and contribute to the diverse outreach events

# GANIL/SPIRAL2 has a regime of restricted Area

GANIL/SPIRAL2 became « restricted area » in July.

- If you received the email from ML Abavent inviting you to answer the questionnaire:

<https://survey.in2p3.fr/index.php/238298?token=WXQLev25kGTPWVp&lang=fr>

**Please answer as soon as possible**

- If you are a registered GANIL user and have not received the email, please contact Marie-Laure asap to be included in the GANIL Registered visitors reference list (T0 list)
- Any physicist **not** registered in the T0 list and willing to perform experiments or tests at GANIL will have to enter the restricted area procedure (= send CV, motivation letter, detailed questionnaire) well ahead of the experiment.



Thank you for your attention.  
Any question ?

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