

Liberté Égalité Fraternité









AXIS 1: NUCLEAR PHYSICS CENTER Scientific Advisory Board: meeting n°1





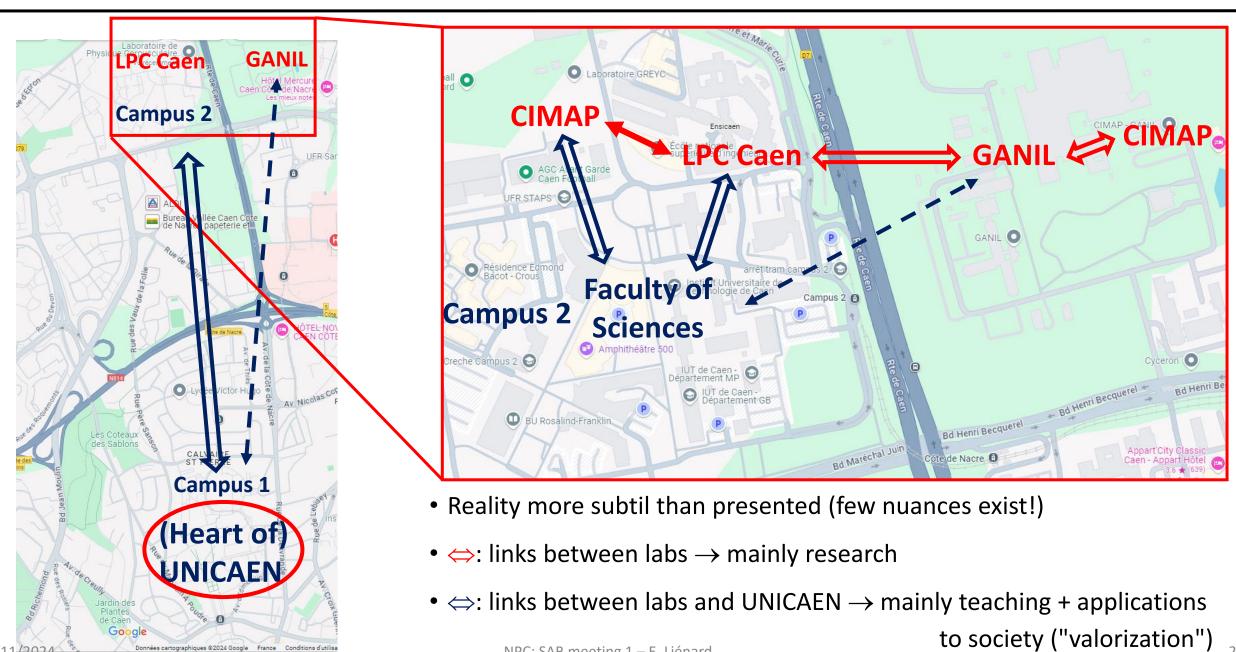




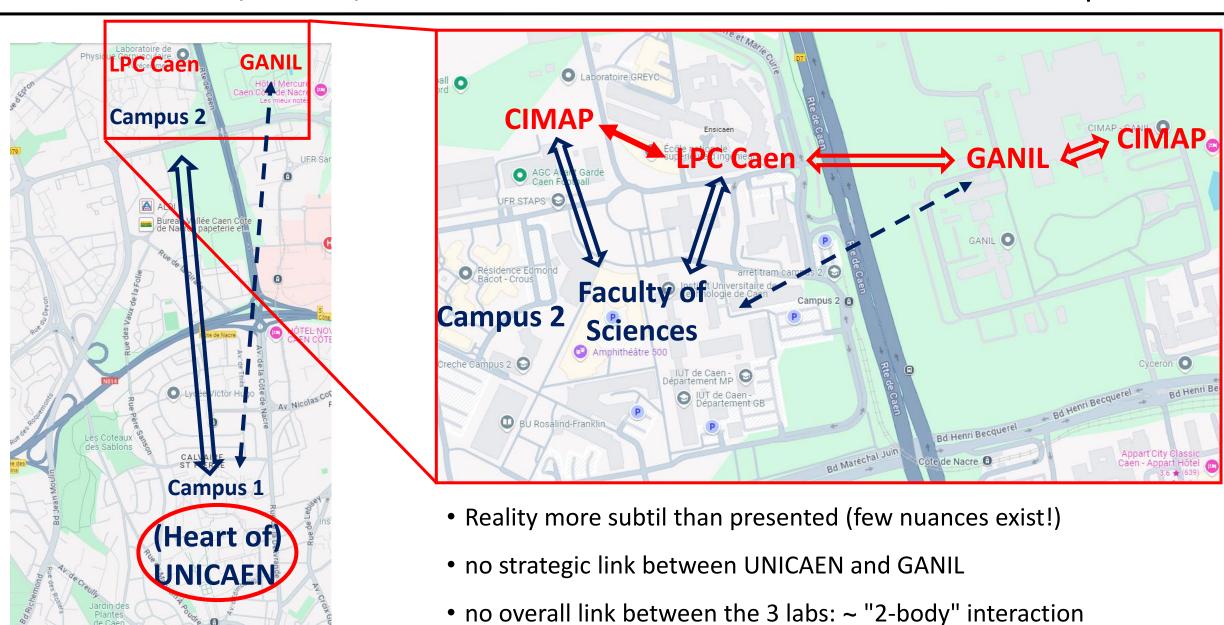




LPC Caen, CIMAP, GANIL & UNICAEN: Situation & relationship



LPC Caen, CIMAP, GANIL & UNICAEN: Situation & relationship



LPC Caen, CIMAP, GANIL & UNICAEN: Situation & relationship

- Reality more subtil than presented (few nuances exist!)
- ⇔: links between labs → mainly research
- \Leftrightarrow : links between labs and UNICAEN \rightarrow mainly teaching + applications to society ("valorization")
- no strategic link between UNICAEN and GANIL
- no overall link between the 3 labs: ~ "2-body" interaction

CaeSAR: project allowing the creation of - a global connection between labs, driven by UNICAEN - a strategic link between GANIL & UNICAEN

<u>Consequences</u>: UNICAEN takes advantage of the presence of GANIL in Caen

Means (HR) are injected in the new GANIL installations by UNICAEN

Leadership of NPC by LPC Caen which is the nuclear physics laboratory of UNICAEN

Why the project CaeSAR was succesful from NPC point of view?

• GANIL/SPIRAL2: NFS + S3 + DESIR

(n) (exotic heavy nuclei) (high precision measurement, SP1&2)

New installations = state-of-the-art setups

3 halls in one center = unique worldwide

- = Source of potential new discoveries in the next decade
- LPC Caen: 2 "Junior Professor Chairs" (CPJ, CNRS/UNICAEN)

CPJ-CNRS: Leendert Hayen, specialist of nuclear beta decay \rightarrow DESIR

CPJ-UNICAEN: Antoine de Roubin, specialist of nuclear structure of exotic nuclei \rightarrow S3-LEB

- = High level competition, high potential of innovation, ERC submitters (LH did it in Oct 2024!)
- CIMAP (implanted on GANIL site): Interdisciplinary research

CIRIL platform: 4 lines with state-of-the-art setups

• Teaching environment: attraction of passionate students → "Graduate school" item



CaeSAR - Nuclear Physics Center: contents

Excellence Center: NPC (Nuclear Physics Center)

Director: Etienne Liénard

Uploaded on INDICO site

Table 1: List of work packages (WP)

WP No	Work Package Title	Start Month	End month
1	Management Laboratory directors* + UNICAEN (DRI, Presidence)	1	72
2	NFS Experiments FR Lecolley (UNICAEN, LPC Caen) + X Ledoux (CEA, GANIL)	9	60
3	S ³ A de Roubin (UNICAEN, LPC Caen) + M Laatiaoui (CNRS, GANIL)	3	72
4	DESIR L Hayen (CNRS, LPC Caen) + JC Thomas (CNRS, GANIL)	11	72
5	Interdisciplinary research S Maclot (UNICAEN, CIMAP)	3	71
6	Graduate School F Gulminelli (UNICAEN, LPC Caen, head of master of phys.)	1	70

^{*:} E. Liénard, O. Lopez (LPCC) - P. Chomaz, F. Farget (GANIL) - I. Monnet, J. Rangama (CIMAP)

CaeSAR - Nuclear Physics Center: budget

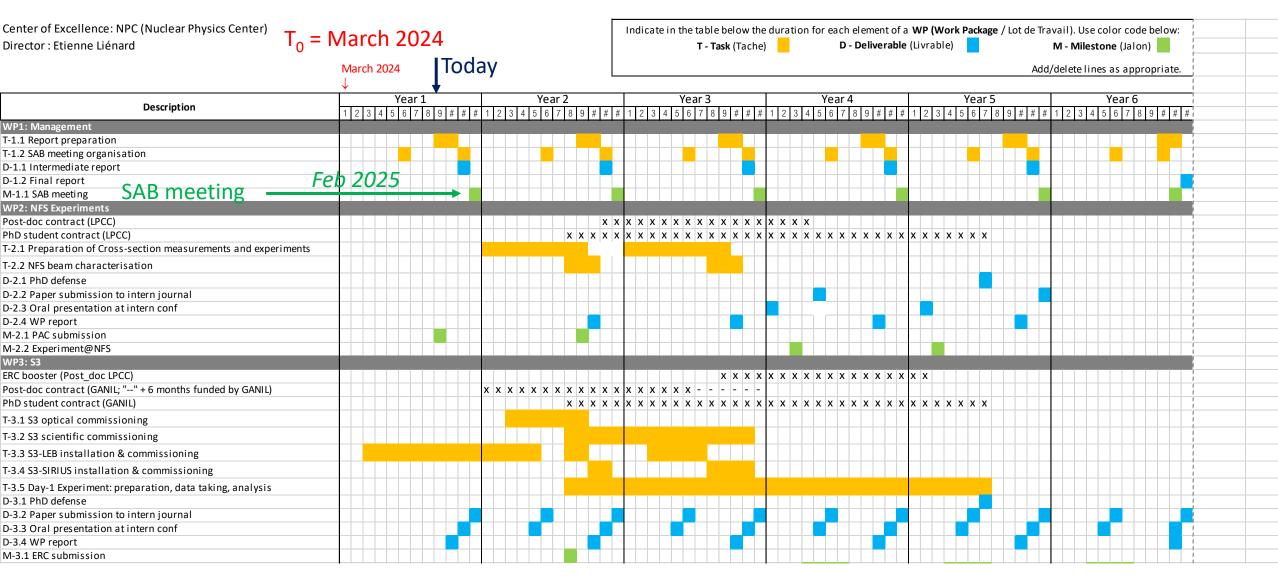
~2.35 M€ in 6 years (HR, schools, internships,...) shared between the 3 labs





Center	Object	Cost per unit / per year	Nb in 6 years	Region k€	ExcellencES k€	Total	LPCC	GANIL	CIMAP	LPCC	GANIL	CIMAP	
Nuclear	post doctoral fellow	90 k€ per post doct 18 months	3	135	135	270	2	1	0	180	90	0	
	ERC Booster	190 k€ (consumables 100 k€ + salary post doct 18 months90 k€)	2	0	380	380	1		1	190	0	190	
	Chair external	500 k€ (salary chair 240 k€ + PhD 120 k€ + PostDoct 18 months 90 k€ + missions 50 k€)	1	120	380	500		1		0	500	0	
	1 Chair permanent	260 k€ (salary PhD 120 k€ + Post Doct 18 months 90 k€ + missions 50 k€)	1	120	140	260	0		1	0	0	260	
	Summer schools	25 k€ per school	4	50	50	100	4 for GS / Master NucPhys			100	0	0	Managed @
	Lab intership	6000 k€ per intership (gratification excellence 1000 euros per month on 6 months)	18		108	108	8 18 for GS / Master NucPhys			108	0	0	LPCC for GS & the 3 labs
	research technicians	180 k€ per technician for 3 years	1	74.16	105.84	180		1		0	180	0	
	PhD	140 k€ (salary 120 k€ + missions 20 k€) per PhD	4	560		560	2	1	1	280	140	140	
TOTAL				1059.16	1298.84	2358				858	910	590	2358
										650	w/o GS elem	nents	

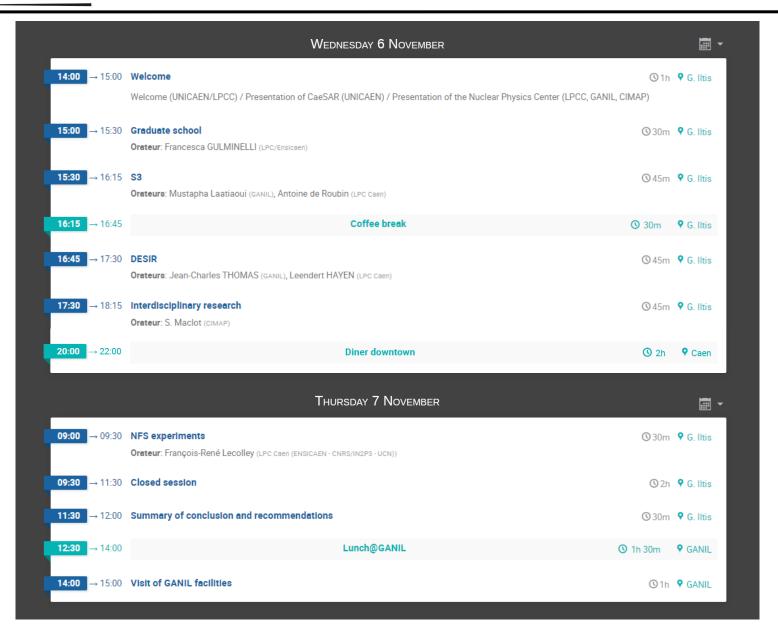
CaeSAR - Nuclear Physics Center: schedule



We're in advance! Presentations = report?

Uploaded on INDICO site

CaeSAR - Nuclear Physics Center: Agenda of 1st SAB meeting



Etienne Liénard

Directeur LPC Caen
02 31 45 24 20

lienard@lpccaen.in2p3.fr

Pôle de recherche

Particules & interactions fondamentales « Mesures de précision à basse énergie »

www.lpc-caen.in2p3.fr













