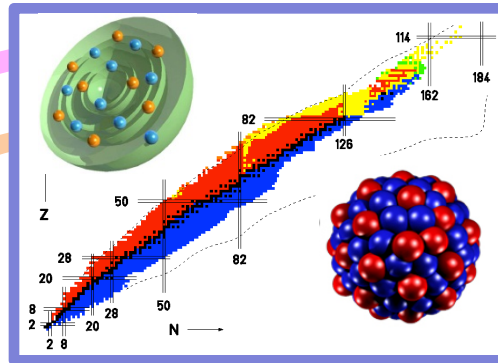


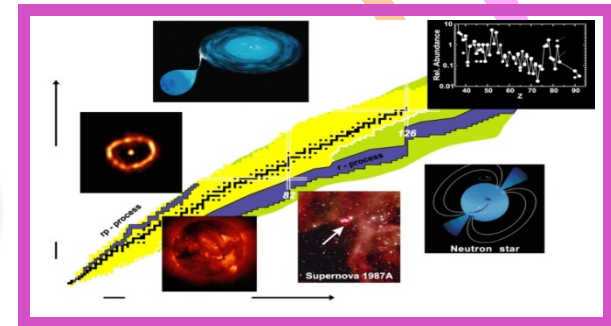
GANIL/SPIRAL2 by 2015



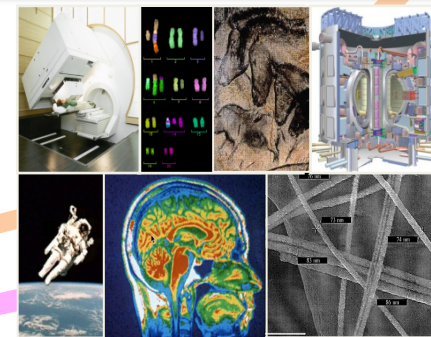
Nuclear structure



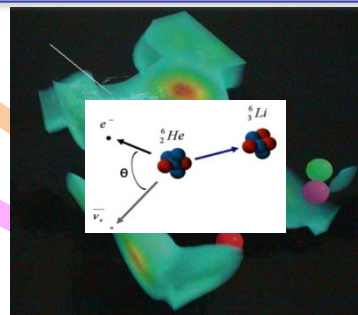
Nuclear Astrophysics



Multi-disciplinary research & Applications



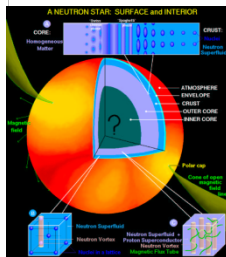
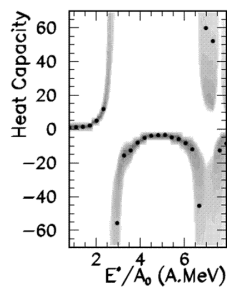
Fundamental Interactions



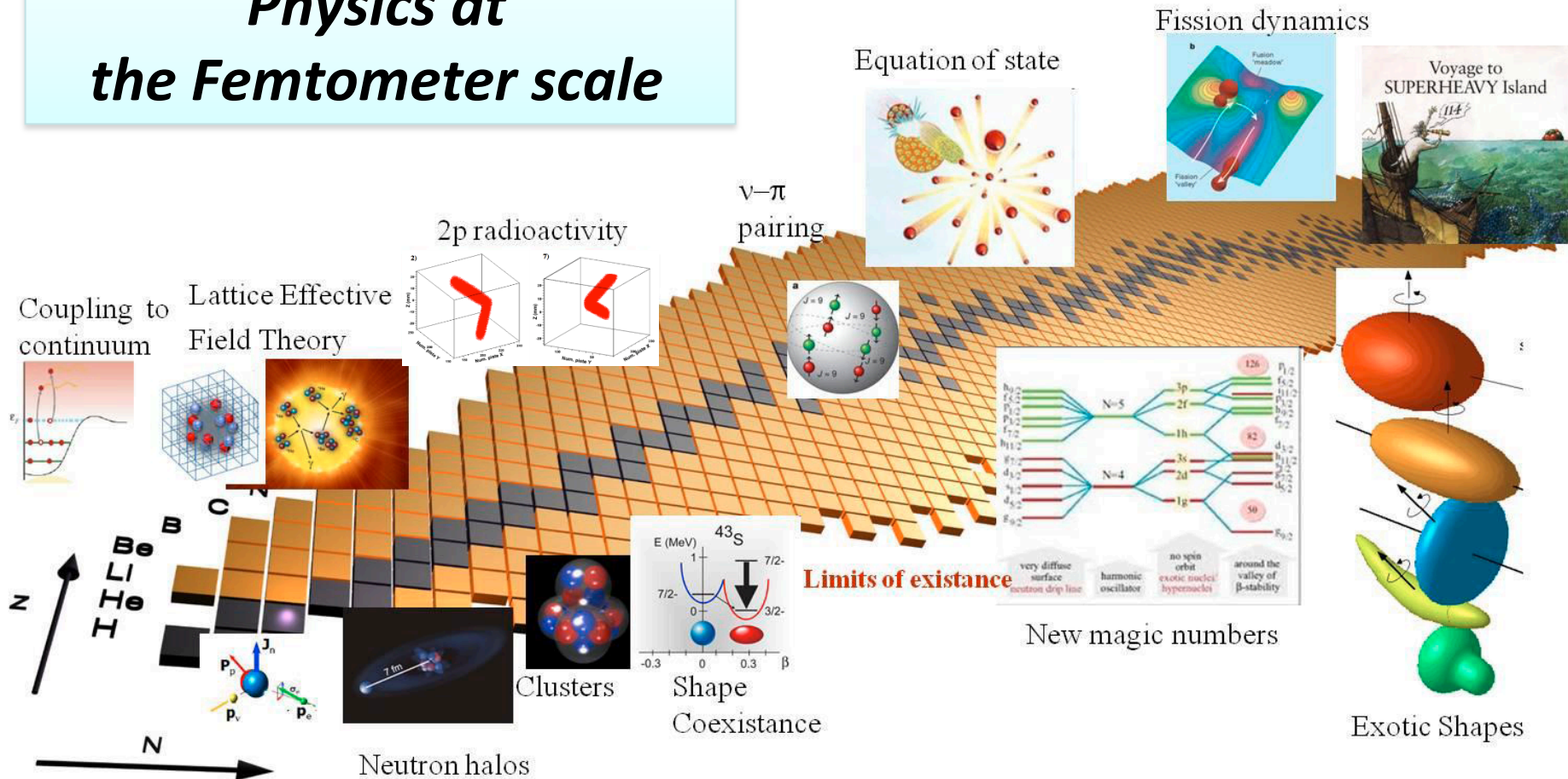
GANIL/SPIRAL2 Science

EOS

Liquid-gas phase
Isospin dependence



Physics at the Femtometer scale



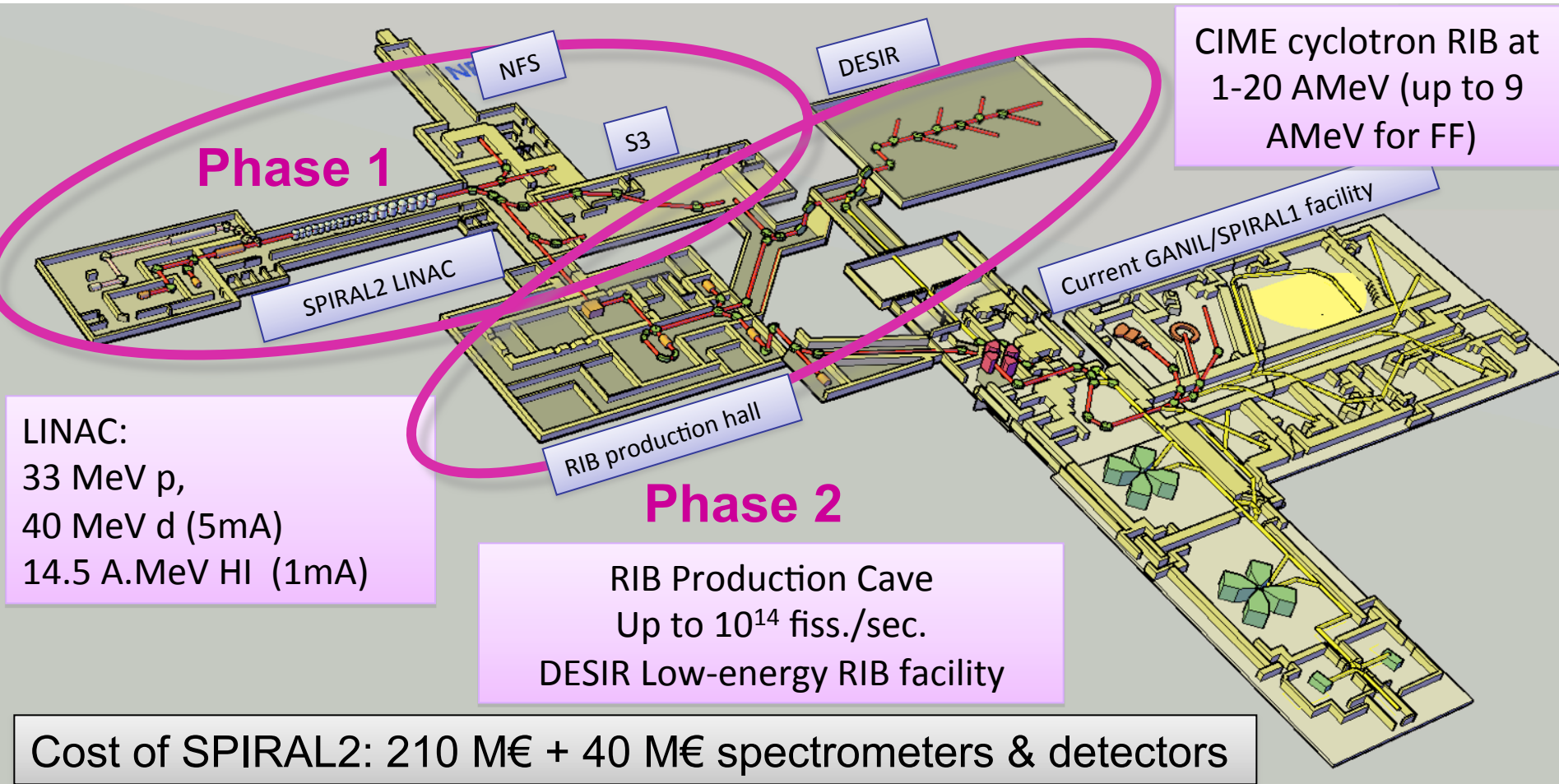
GANIL/SPIRAL2: Nuclear Structure & reactions with high-quality, purity & intensity Stable-Ion and RIB in a perfectly suited energy range: from keV to 20 MeV/nucleon

Existing GANIL facility & SPIRAL2 under construction

Caen, France

Phase 1: High intensity stable beams + Experimental rooms (S^3 + NFS)

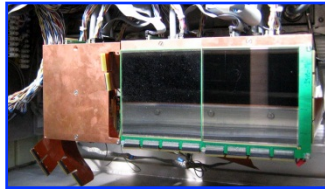
Phase 2: High-intensity low-energy (DESIR) & post-accelerated Radioactive Ion Beam facility



VAMOS

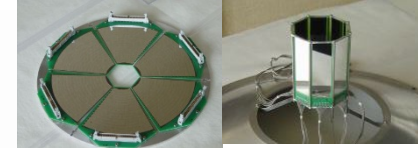
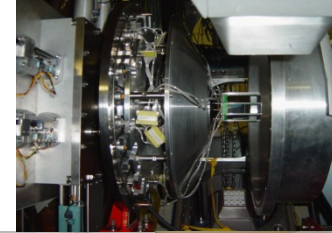
GANIL spectrometers and detectors

MUSETTE



SPEG

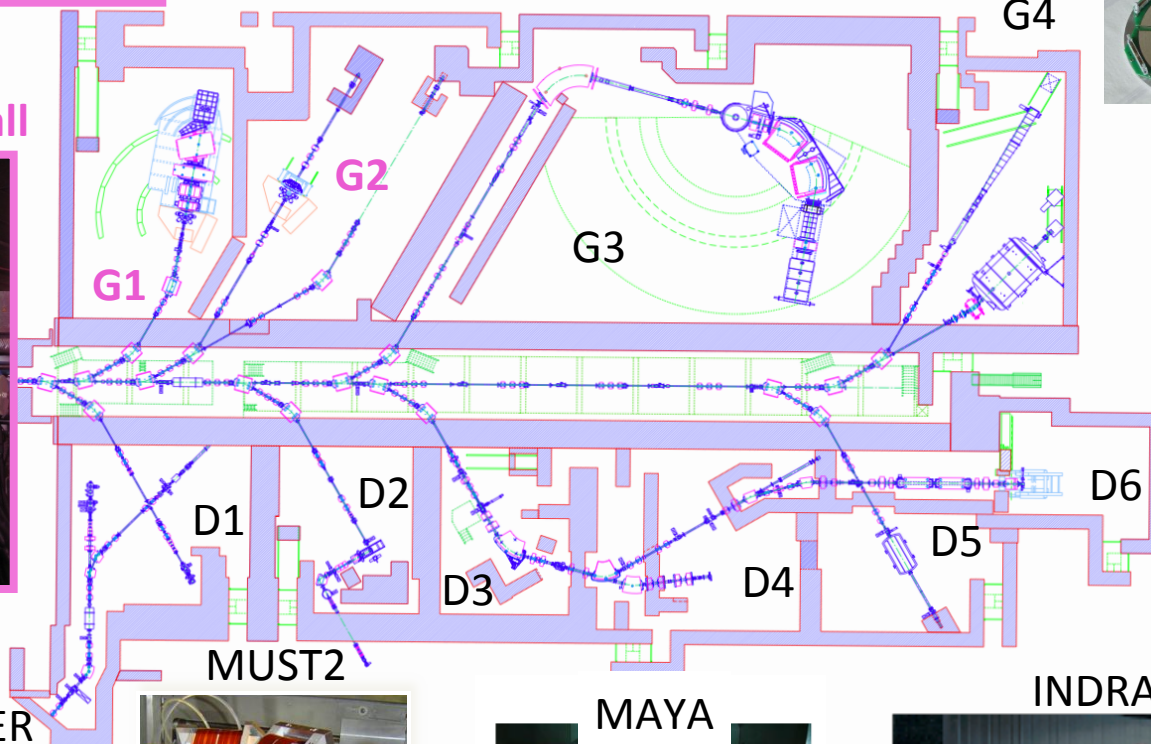
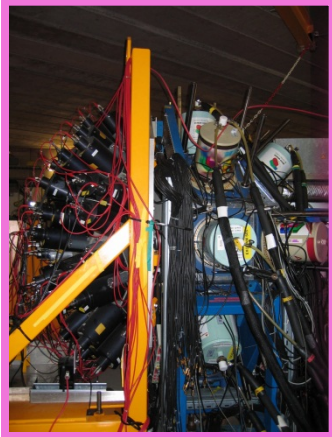
TIARA



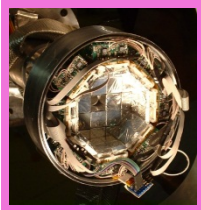
LISE 3



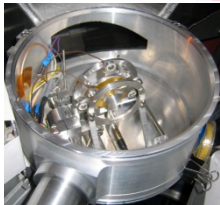
EXOAM & n-wall



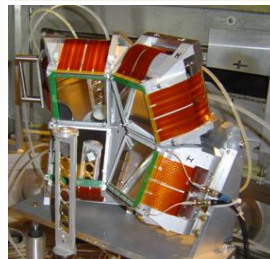
DIAMANT



PLUNGER



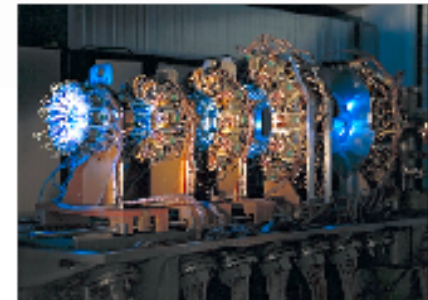
MUST2



MAYA



INDRA

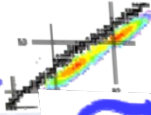


SPIRAL2 phase 1 civil construction



SPIRAL2 phase 1 civil construction

Spiral2

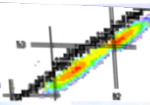


Status of buildings construction



Site before

Spiral2



Status of buildings construction

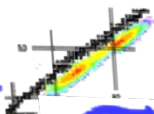


The crane

Excavation work

SPIRAL2 phase 1 civil construction

Spiral2

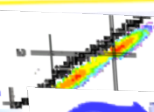


Status of buildings construction



Site before

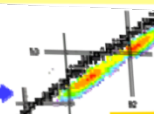
Spiral2



Status of buildings construction



Spiral2



Status of buildings construction



End of May 2012

**LINAC
Hall**



SPIRAL2 phase 1 civil construction

Spiral2

Status of buildings construction



Site before

Spiral2

Status of buildings construction



Spiral2

Status of buildings construction



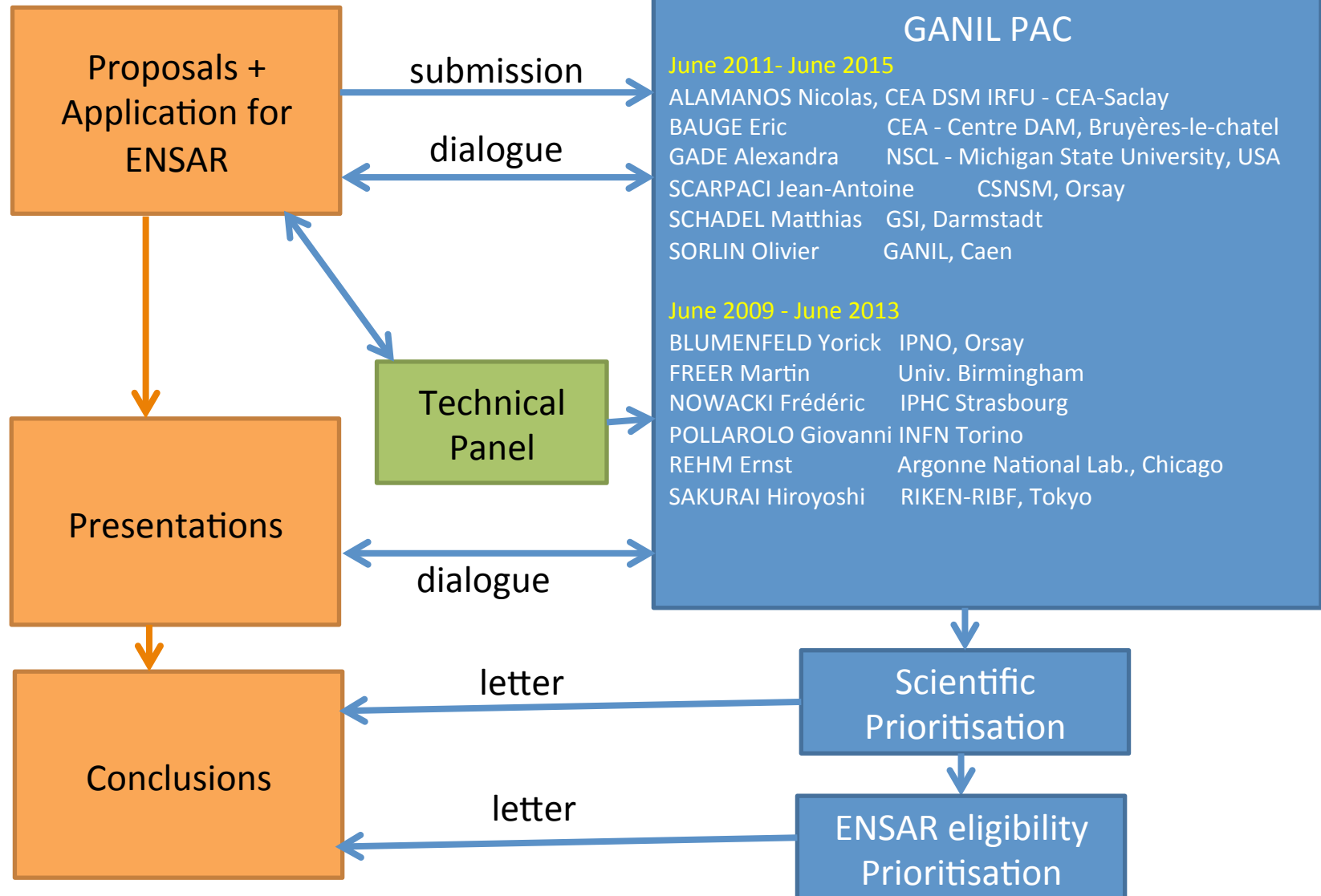
End of May 2012

LINAC
Hall



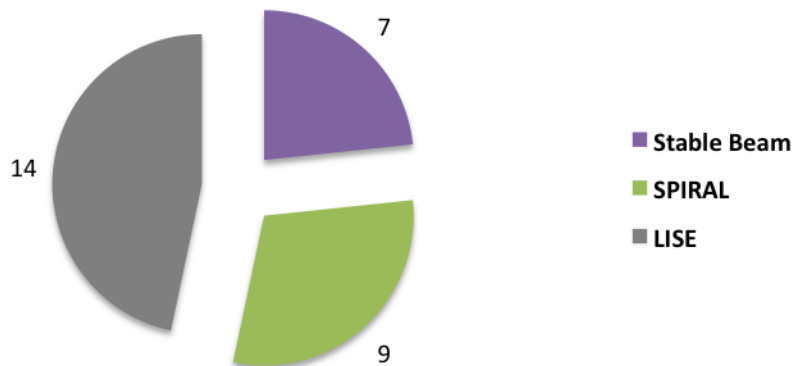
- ✓ Installation of equipment Q3 2012 → Q4 2013
- ✓ Commissioning : Q4 2013 →

Proposal Submission and Approval

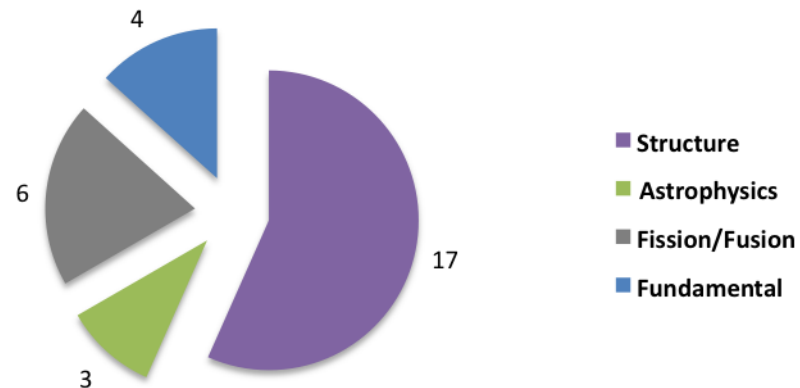


- November 2011: 16 experiments proposed with a total of 376 UT's requested (~125 days). A total of 182 UT's were accepted (7/16 approved)
- October 2012: 14 experiments proposed with a total of 362 UT's requested (~121 days).

Requested Beams (2011-2012)



Physics Programs (2011-2012)



E579 a	B. Sulignano, P.T Greenlees	Spectroscopy of excited states in $^{240,242,244}\text{Cf}$ nuclei
E630	A. Navin, M. Rejmund,	Signature of “three body forces” in neutron rich Ca nuclei
E631	C. Wheldon, M. Freer	Does alpha-clustering persist into fp-shell nuclei?
E632	G. Neyens	The quadrupole moment of ^{57}Cu : probing the E2-core polarization of doubly-magic ^{56}Ni
E633	G. Neyens, T. Mertzimekis	Low-energy structure in $^{64,65,66,67}\text{Co}$ isotopes probed by g factor and quadrupole moments
1:00	COFFEE BREAK	
E634 S	E. Lienard	Measurement of the beta-neutrino angular correlation coefficient in ^{35}Ar decay
E635	J. Ljungvall, G. Georgiev	Measurement of the lifetime of the first excited 2^+ state in ^{60}Cr using the RDDS technique
E636 S	N. Soic	Structure of ^{18}Ne and its astrophysical implications
E637	D. Sohler, (Z. Dombradi) A. Obertelli	Search for drip line effects around the doubly magic ^{22}Si nucleus

E638	A. Corsi, S.Péru	Configuration transition in light-germanium isotopes via two-neutron transfer
E639	A. Gottardo, D. Mengoni	Shell evolution beyond the doubly-magic nucleus ^{48}Ca
4:00	LUNCH	
E640	G. Georgiev, A.E. Stuchbery	g-factor measurement of the 2^+ state of the N=32 neutron-rich ^{56}Cr nucleus
E641 S	B. Bastin, P. Ujic,	Measurement of the missing nuclear structure properties of astrophysical importance in ^{19}Ne via a strongly improved inelastic scattering method
E642	J. Lee, A. Obertelli	Understanding nucleon stripping from exotic nuclei at intermediate energy
E643 S	I. Martel A. Laird	Investigation of the ^{19}Ne levels of astrophysical interest using $^{18}\text{Ne}(\text{d,p})^{19}\text{Ne}$ reaction in inverse kinematics
E644	M. Assie, E. Pollacco	Study of n-p pairing through two-nucleon transfer reactions

Exp #	Spokespersons	Recommended UT's	Recommendations
E630	A. Navin	33	Highest priority
E644	M. Assie	38	Highest priority
E579a	B. Sulignaro	21	Accepted
E633	G. Neyens	20	Accepted
E634S	E. Lienard	24	Accepted
E637	D. Sohler	21	Accepted
E641S	B. Bastin	25	Accepted

3 additional proposals requested ENSAR funding offline – circulated to PAC members for approval.

ENSAR support to users:

- 129.7 k€ pour la première période de reporting (PR1 : du 01/09/2010 au 29/02/2012)
- 77,3 k€ pour la deuxième période (PR2: du 01/03/2012 à ce jour)

PAC	Accord PAC	Exp finançable	Programmation 2010/2011	Programmation 2012	Programmation à venir	Financement ENSAR
Nov-06	Dec-10	E437b	X			PR1
May-08	Dec-10	E513a			X	
May-09	Dec-10	E516a	X			PR1
Jun-06	Dec-10	E552	X			PR1
Dec-08	Dec-10	E556a	X			
Jun-07	Dec-10	E560S	X			PR1
Dec-07	Dec-10	E567			X	
Dec-10	Accord Mail	E568a		X		PR2
May-08	Dec-10	E576	X			PR1
Dec-08	Dec-10	E580S	X			PR1
Dec-08	Dec-10	E586		X		PR2
Dec-08	Dec-10	E587S	X			PR1
Dec-08	Dec-10	E588	X			PR1
May-09	Accord Mail	E595		X		PR2
May-09	Dec-10	E597S	X			PR1
Mar-10	Dec-10	E604	X			PR1
Mar-10	Dec-10	E605	X			PR1
Dec-10	Dec-10	E615		X		PR2
Dec-10	Dec-10	E620S	X			PR1
Dec-10	Dec-10	E623		X		PR2
Dec-10	Dec-10	E628			X	
Nov-11	Nov-11	E633			X	
Nov-11	Nov-11	E641S			X	
Jun-07	Accord Mail 2012	E563		X		PR2
Mar-10	Accord Mail 2012	E611		X		PR2