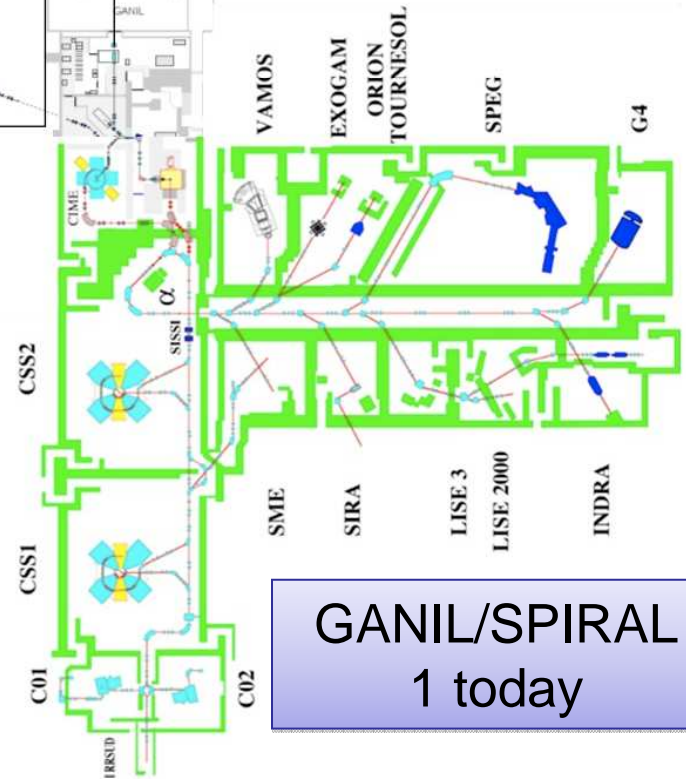


DESIR Facility
low energy RIB

RIB production
building

RFQ+HRS

- Recent modifications:**
- High-intensity stable beam ion source ($A/q=3$) included in the baseline project
 - RIB laser source included in the baseline project
 - RFQ+HRS also for post-accelerated beams
 - Only one production cave in the production building
 - SRI hall not included in the Phase 1



GANIL/SPIRAL
1 today



Schedule of SPIRAL 2

| | 2006 | | | | 2007 | | | | 2008 | | | | 2009 | | | | 2010 | | | | 2011 | | | | 2012 | | | | 2013 | | | | | | | |
|---|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|--|--|--|--|
| | T1 | T2 | T3 | T4 | T1 | T2 | T3 | T4 | T1 | T2 | T3 | T4 | T1 | T2 | T3 | T4 | T1 | T2 | T3 | T4 | T1 | T2 | T3 | T4 | T1 | T2 | T3 | T4 | T1 | T2 | T3 | T4 | | | | |
| Accelerator building & associated experimental hall | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elaboration of programme | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| External Review of programme | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tenders buildings - jury meetings | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conceptual study of buildings (APS +) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Request Permit for construction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Permit for construction granted | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction of buildings | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hand-over of buildings | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Installation of equipement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| First beams | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Production building & associated experimental hall (DESIR) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elaboration of programme | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| External Review of programme | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tenders for buildings - jury meetings | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conceptual study of buildings (APS +) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Request for permit for construction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conceptual study of buildings (APD) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Permit for construction granted | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction of buildings | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Installation of equipement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tests | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Green light! | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Decision on the construction of DESIR (dead-line)



Operation of GANIL/SPIRAL1/SPIRAL2 in 2015 ☺ or 2020 ☹

Standard planning; one production cave

DESIR 29 weeks of RIB/year:
10 weeks of RIB from SPIRAL2, 4 weeks from S3, 15 weeks from SPIRAL1

| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | Nb. semaines |
|-----------------------|--|---------------------|---|---|---|---------|---|---|---|------|----|----|----|-------|----|----|----|-----|----|----|----|------|----|----|----|---------|----|----|----|------|----|----|----|-------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|----|----|----|----|--------------|
| | | Janvier | | | | Février | | | | Mars | | | | Avril | | | | Mai | | | | Juin | | | | Juillet | | | | Août | | | | Sept. | | | | Oct. | | | | Nov. | | | | Dec. | | | | | | | | |
| SPIRAL 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fonctionnement LINAG | | [Grid of 1s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 44 |
| Maintenance LINAG | | [Grid of 1s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| AEL | | [Grid of Xs and 1s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 16 |
| AUTRES CIBLES | | [Grid of Xs and 1s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| CIBLES Ucx | | [Grid of Xs and 1s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 |
| Aires GANIL | | [Grid of Xs and 1s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 18 |
| DESIR | | [Grid of Xs and 1s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 14 |
| Changements ECS | | [Grid of Xs and 1s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 14 |
| GANIL/SPIRAL 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fonctionnement GANIL | | [Grid of 1s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 36 |
| Maintenance GANIL | | [Grid of 1s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 16 |
| SISSI/Aires GANIL | | [Grid of Xs and 1s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 9 |
| CASEMATE SPIRAL1 | | [Grid of Xs and 1s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 21 |
| Aires GANIL | | [Grid of Xs and 1s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| LIRAT ou DES | | [Grid of Xs and 1s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 |
| CSS1 solo | | [Grid of Xs and 1s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| SME | | [Grid of Xs and 1s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 25 |
| IRRSUD | | [Grid of Xs and 1s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 14 |



DESIR in the SPIRAL 2 project: summary

- Civil construction design phase of DESIR and halls which will host beam lines from S3, production building and SPIRAL1 is fully included in the SPIRAL2 baseline project
- Final decision on the construction of DESIR at the latest by the middle of 2010
- Funds attributed today for the construction of DESIR building: 2 M€ (CPER)
- The goal of the SPIRAL 2 project management for coming 1,5 years: find resources (budget and manpower) in order to include the DESIR buildings in the baseline project

Recent changes in the SPIRAL 2 design in relation to DESIR:

- RIB laser source included in the baseline project
- RFQ+HRS also for post-accelerated beams
- Only one production cave in the production building