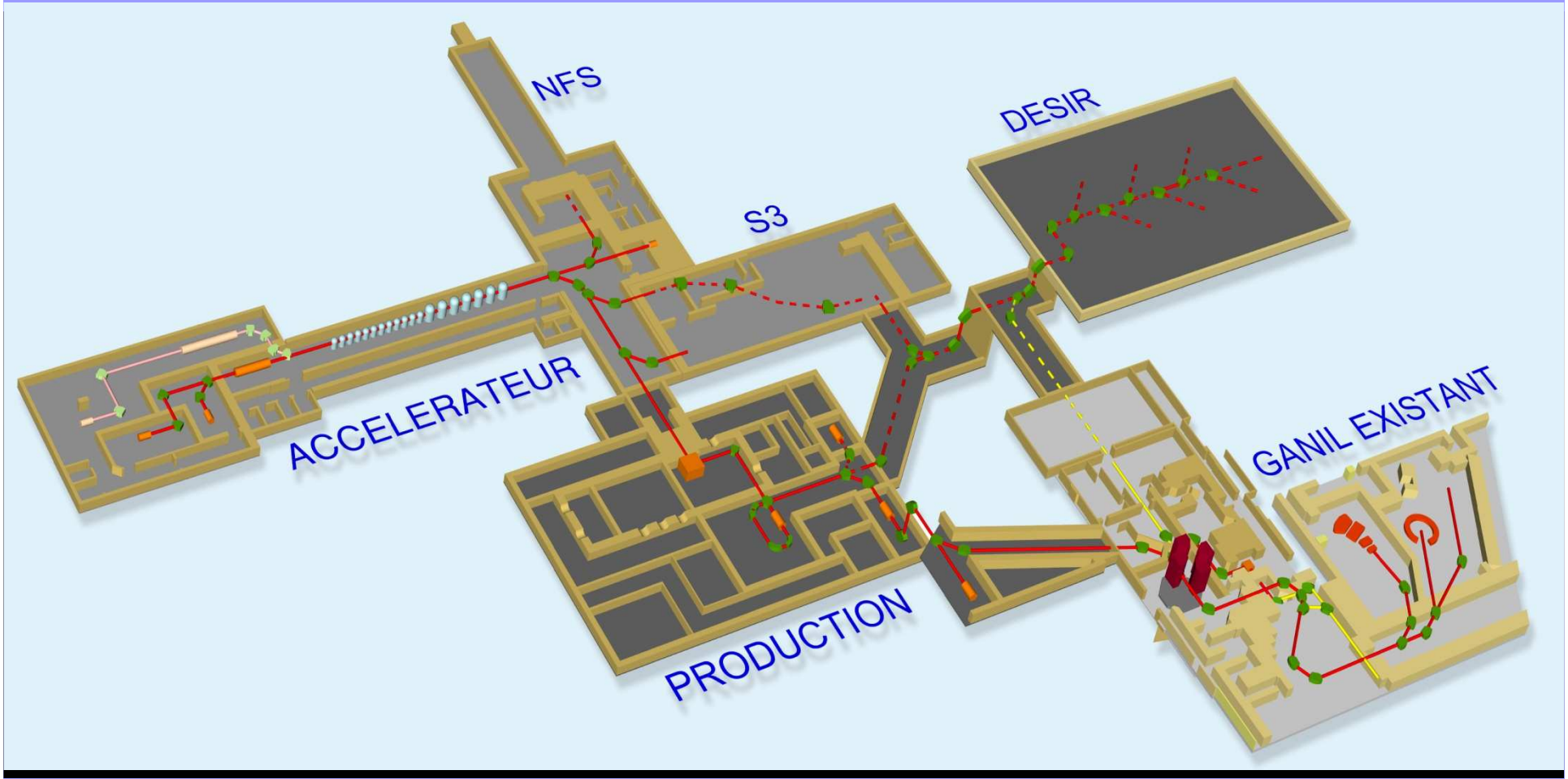
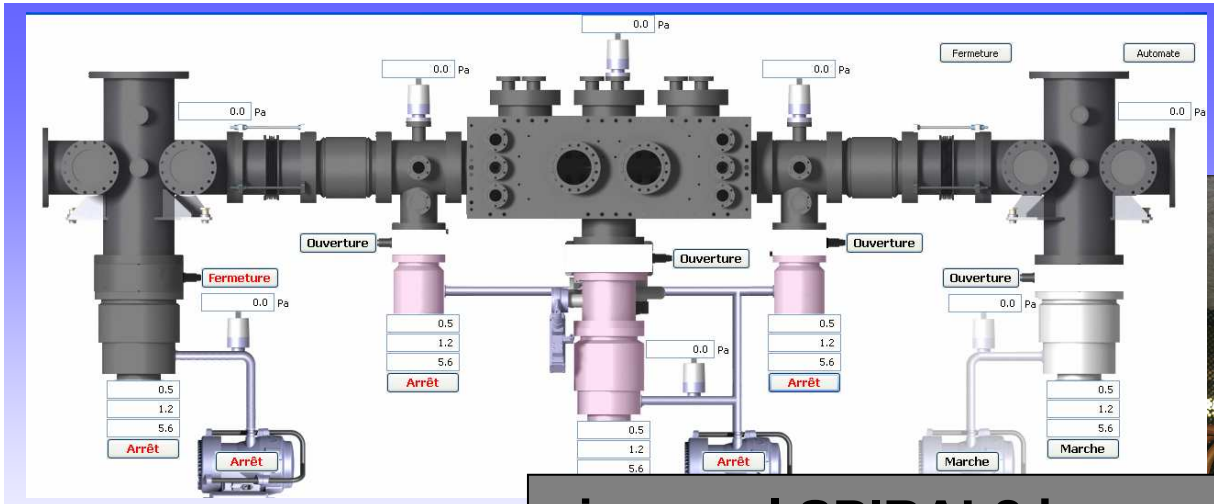
THE DESIR facility at SPIRAL2

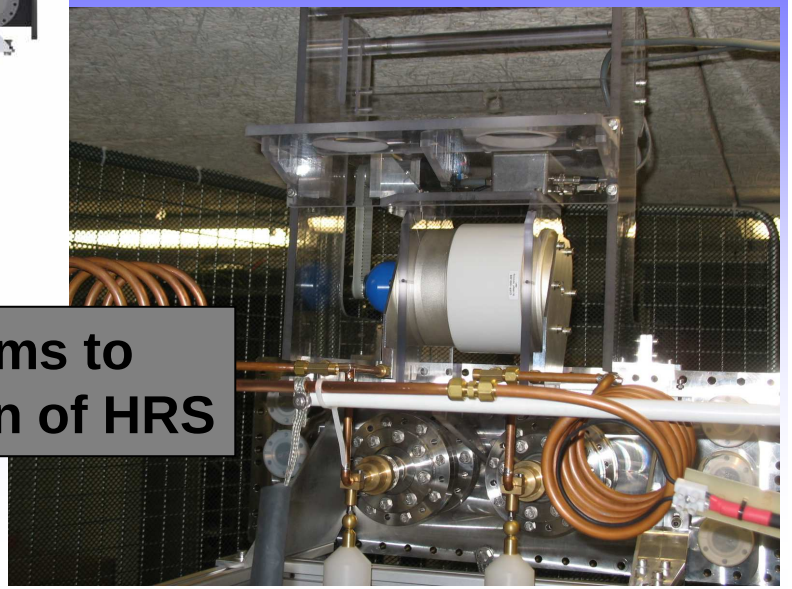


Beams from

- **SPIRAL1 (light very exotic isotopes)**
- **SPIRAL2 (fission fragments, fusion-evaporation and transfer products)**
- **S3 (fusion-evaporation products)**

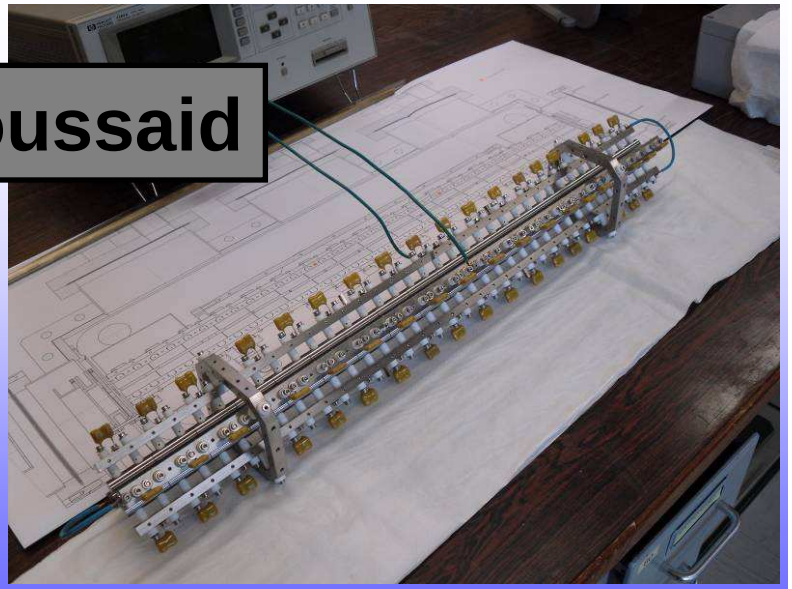
SHIRAC2





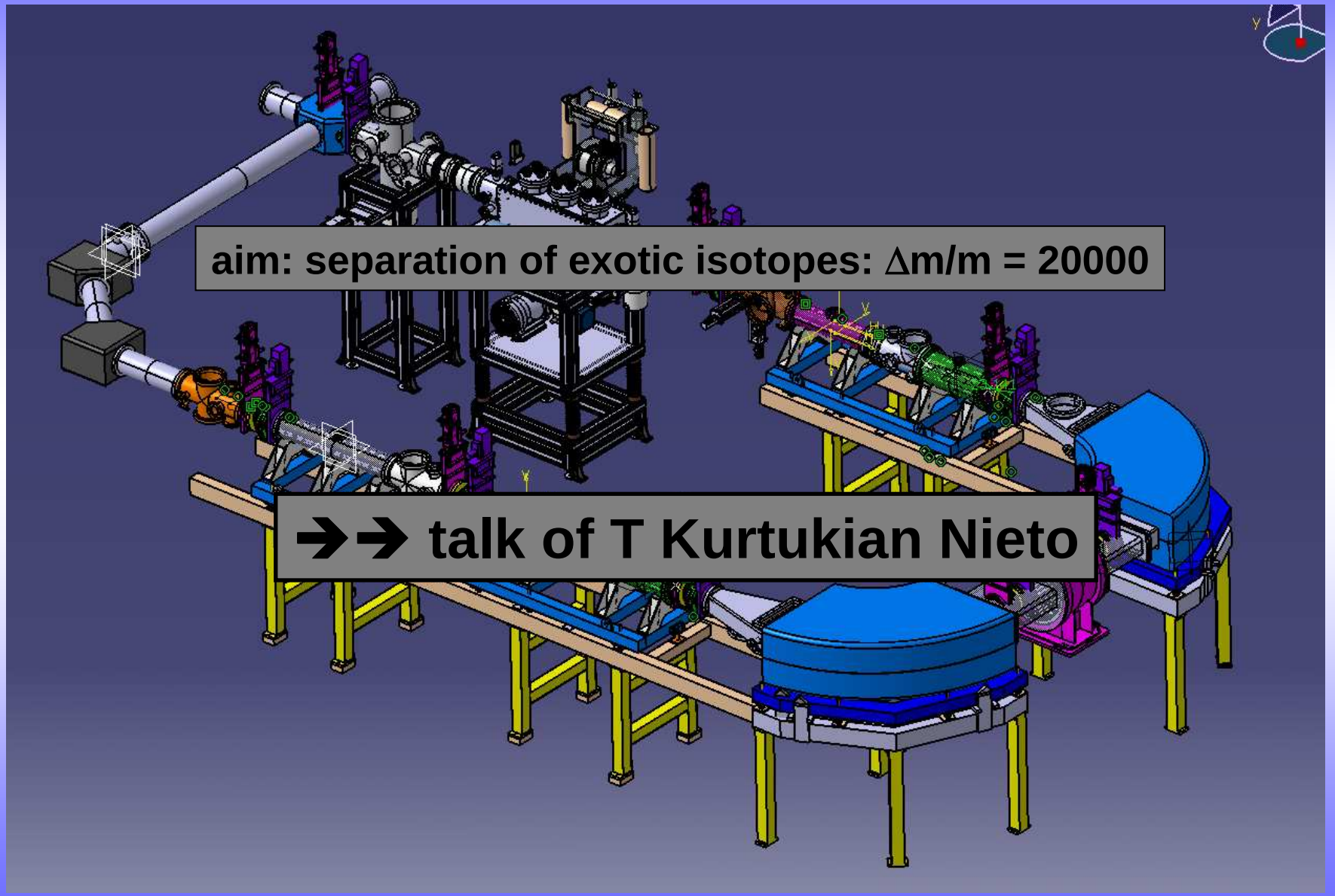
aim: cool SPIRAL2 beams to improve resolution of HRS

➔➔ talk of R. Boussaid

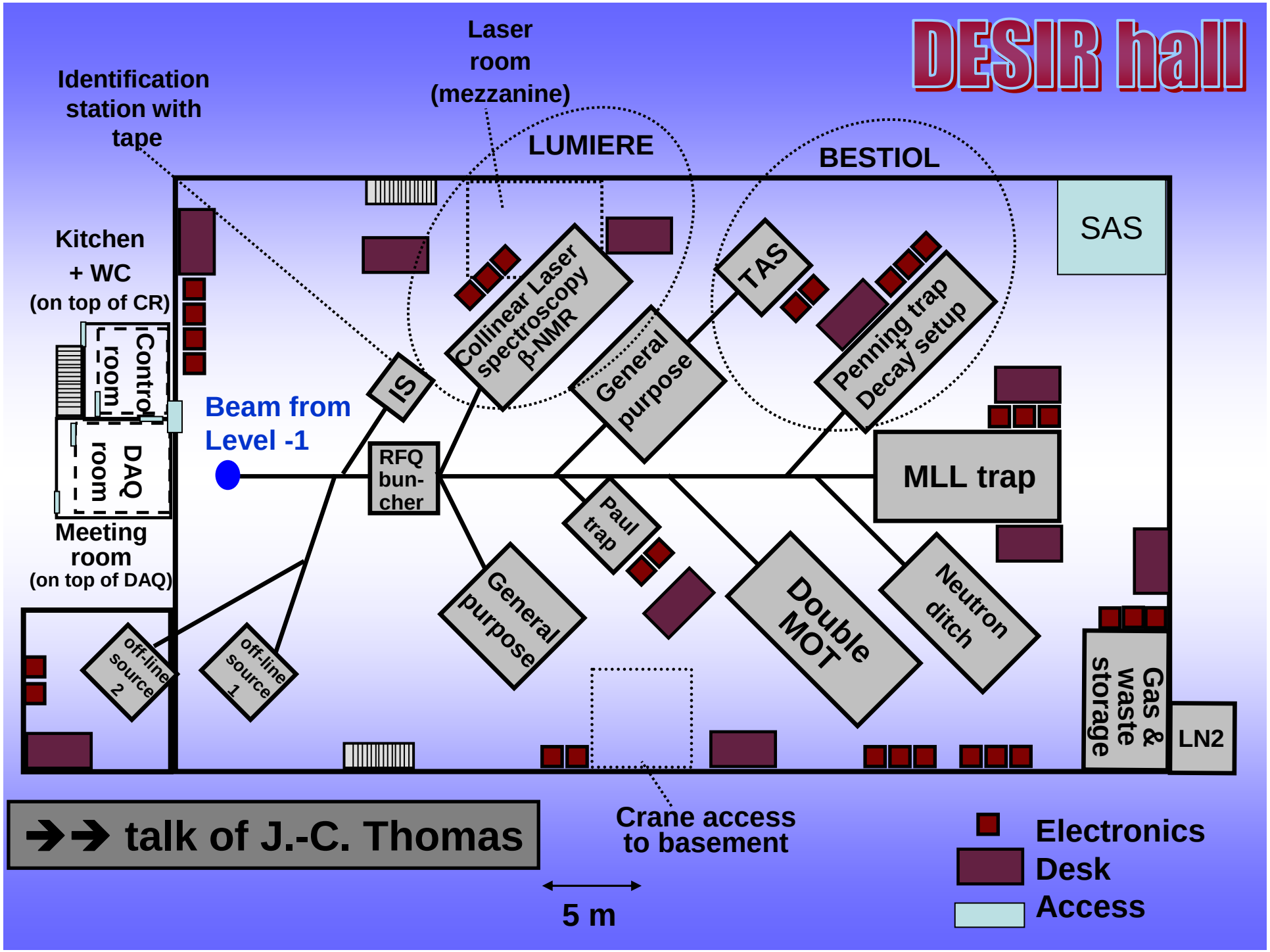


Development: LPC Caen, G. Ban, R. Boussaid

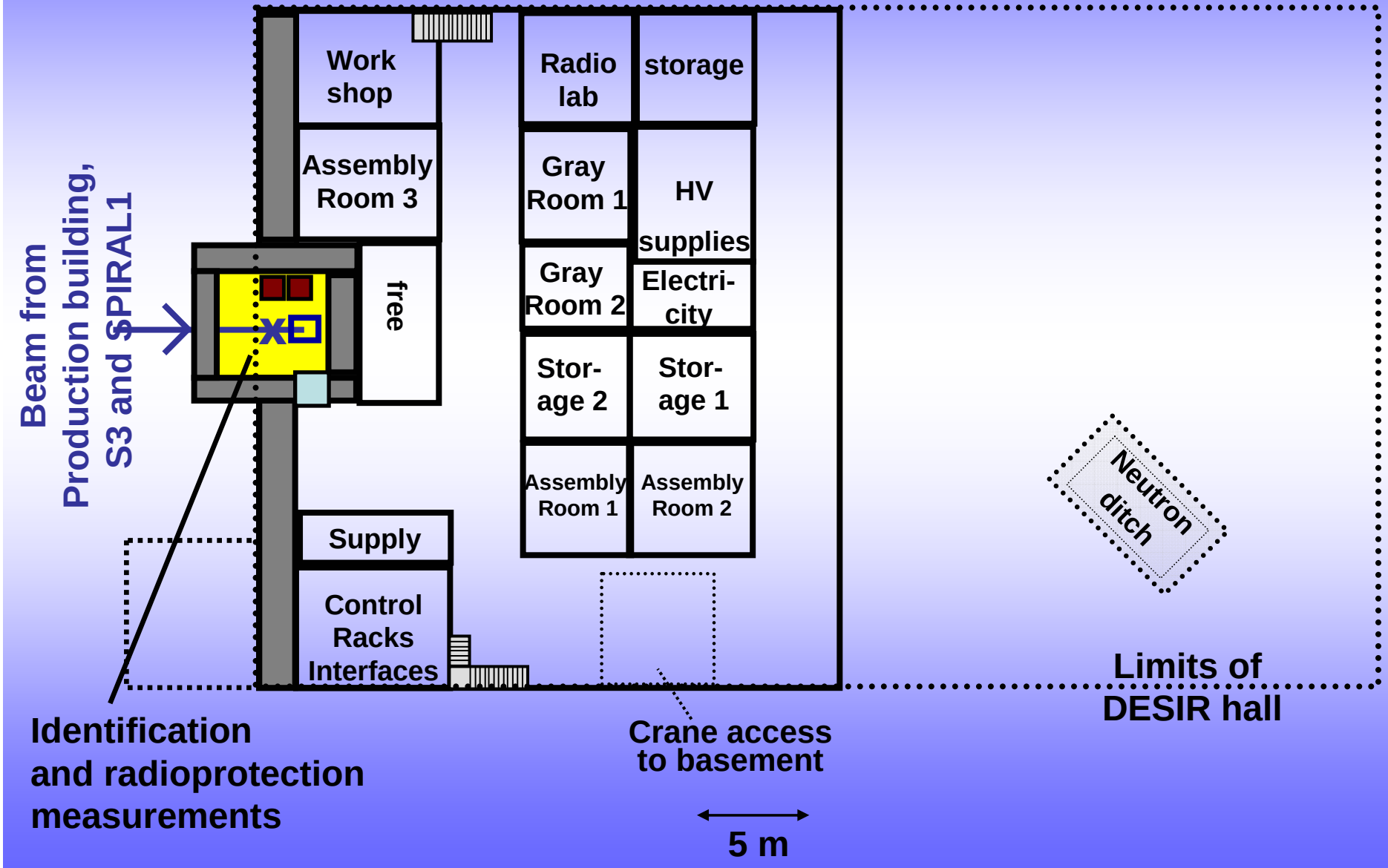
DESIR HRS



Development: CENBG, T. Kurtukian Nieto, L. Serani, F. Delalee, B. Blank

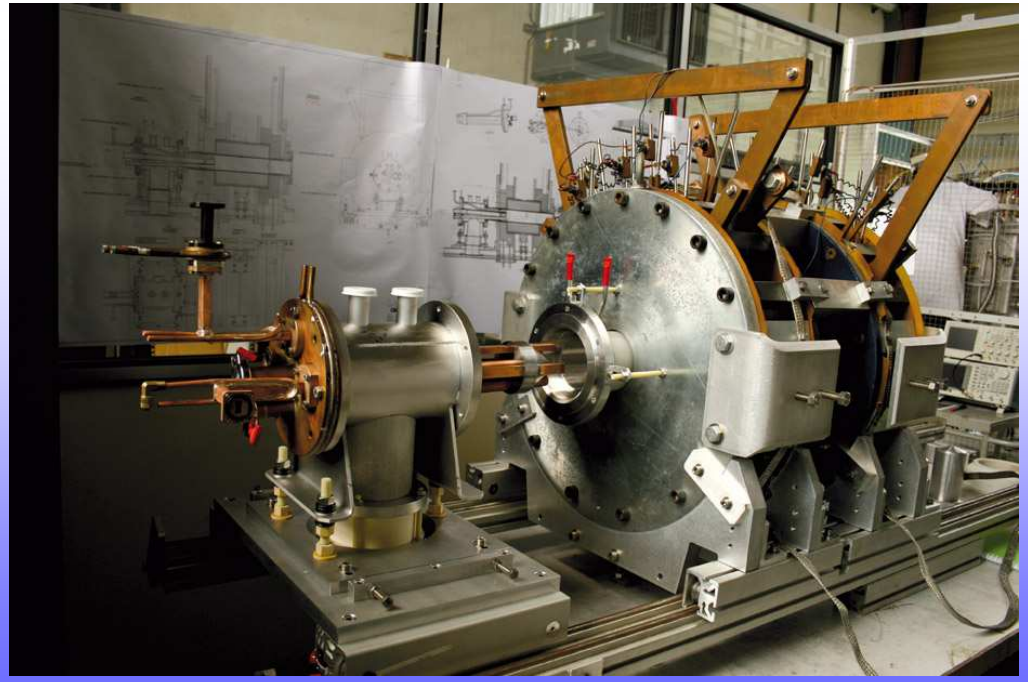

DESIR hall
Identification station with tape
Laser room (mezzanine)
LUMIERE
BESTIOL
SAS
Kitchen + WC (on top of CR)
Control room
DAQ room
Meeting room (on top of DAQ)
Beam from Level -1
IS
Collinear Laser spectroscopy β-NMR
General purpose
TAS
Penning trap + Decay setup
RFQ bun-cher
MLL trap
Paul trap
General purpose
Double MOT
Neutron ditch
off-line source 2
off-line source 1
Gas & waste storage
LN2
Crane access to basement
5 m
Electronics
Desk
Access
➔➔ talk of J.-C. Thomas

DESIR hall: level -1

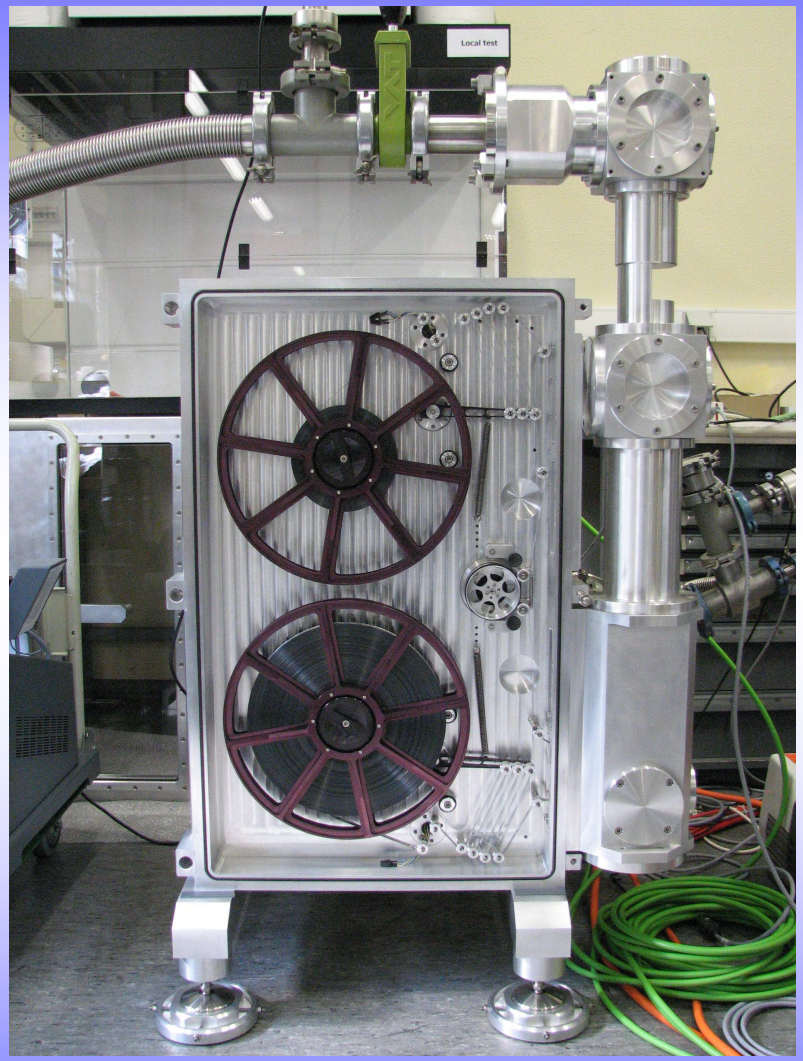


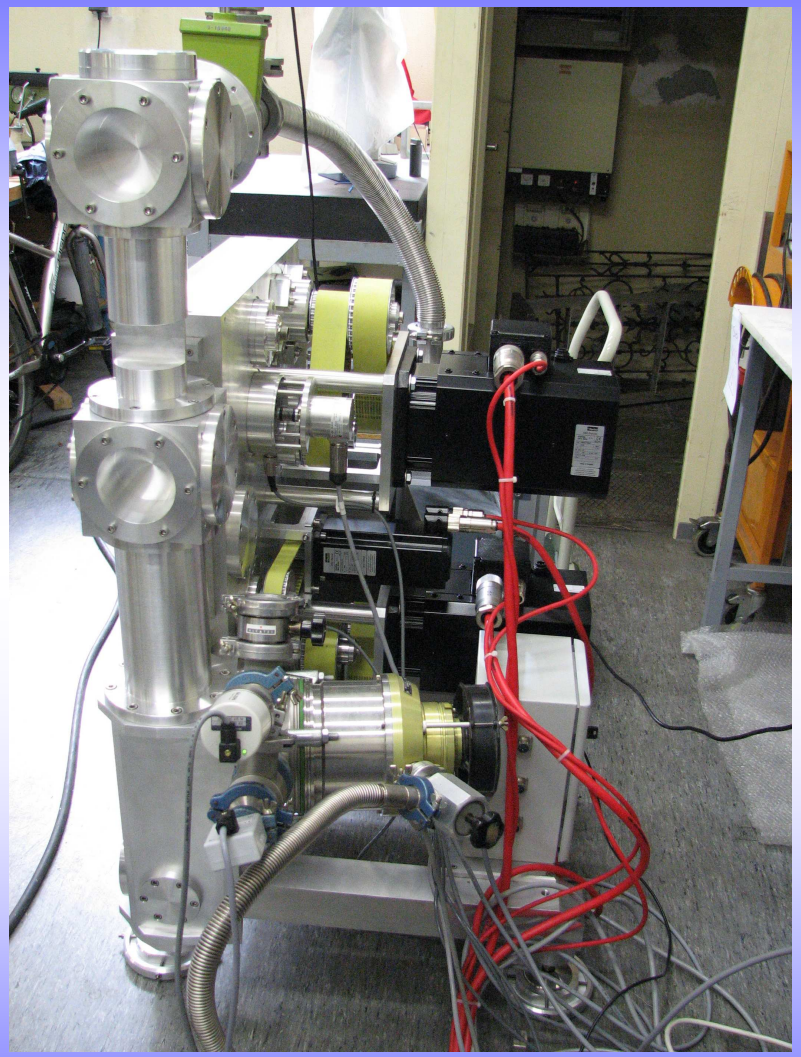
DESIR stable ion sources

- deliver stable beams to
  - optimise transmission to setups
  - test setups off-line
  - provide beams for reference measurements



DESIR Identification station



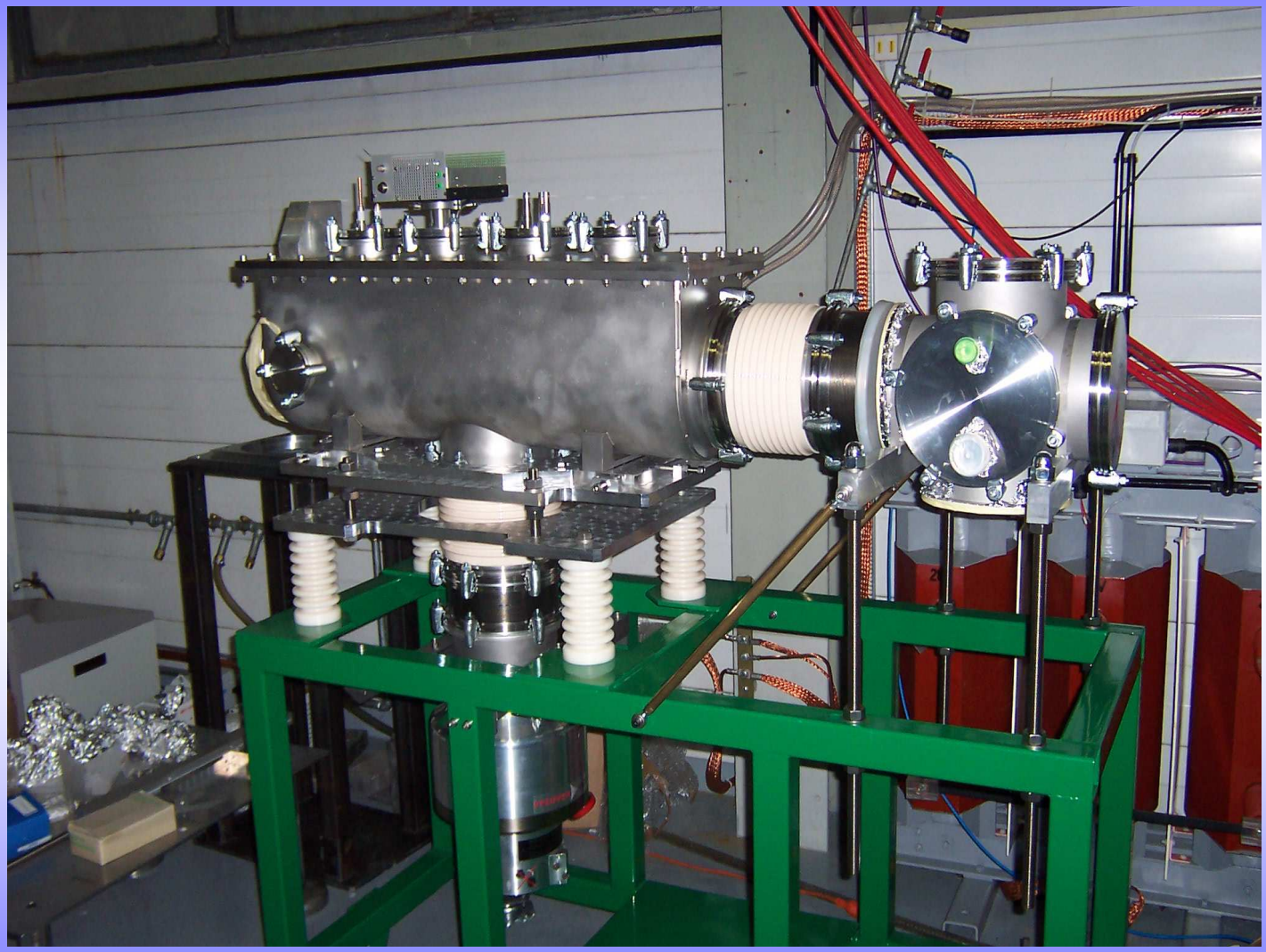


ISOLDE identifi-cation station

- **determine beam composition before beam is sent to setups**
- **determine beam intensity**

Development:
IPHC Strasbourg, Ph. Dessagne

DESIR General Ion Buncher

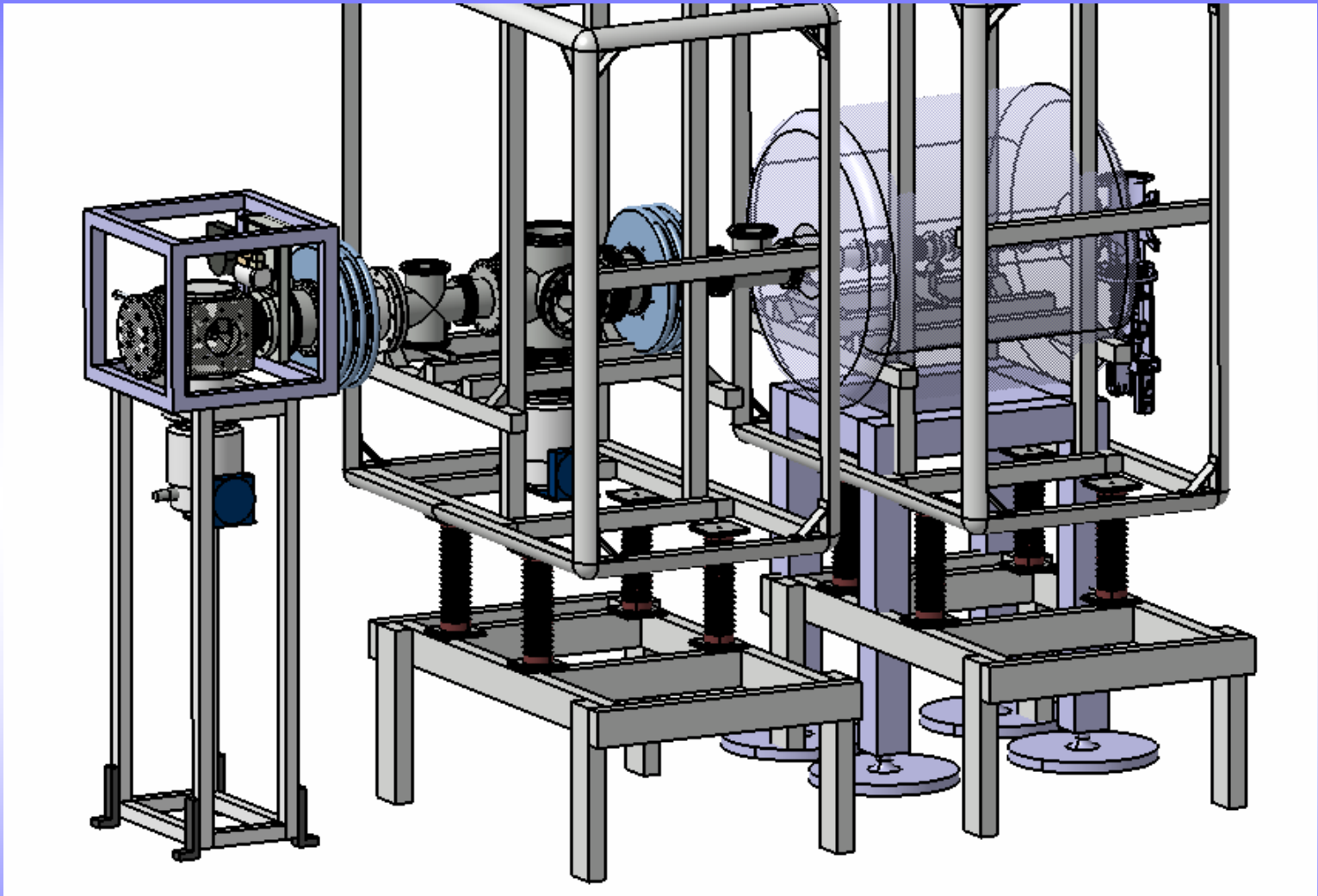


ISCOOL
@
ISOLDE

bunch beams for
- injection in traps
- laser spectroscopy

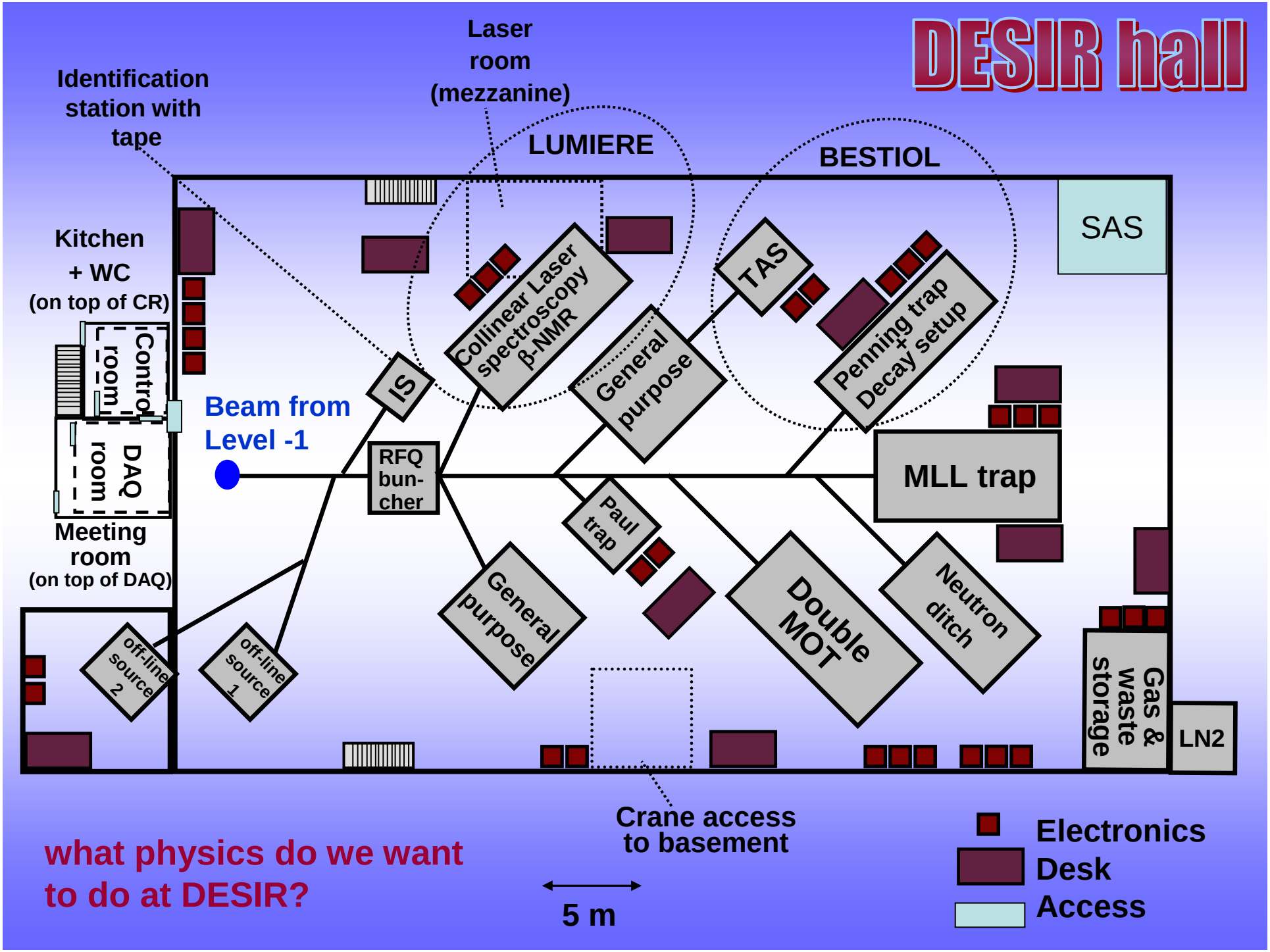
Development: GANIL, P. Delahaye, J.-C. Thomas;
CSNSM Orsay, D. Lunney

DESIR Double-Penning trap



provide pure beams for
trap-assisted decay spectroscopy
- **TAS measurements**
- **high-precision measurements**

Development: CENBG, B. Blank, F. Delalee
M. Gerbaux, S. Grévy
CSNSM, D. Lunney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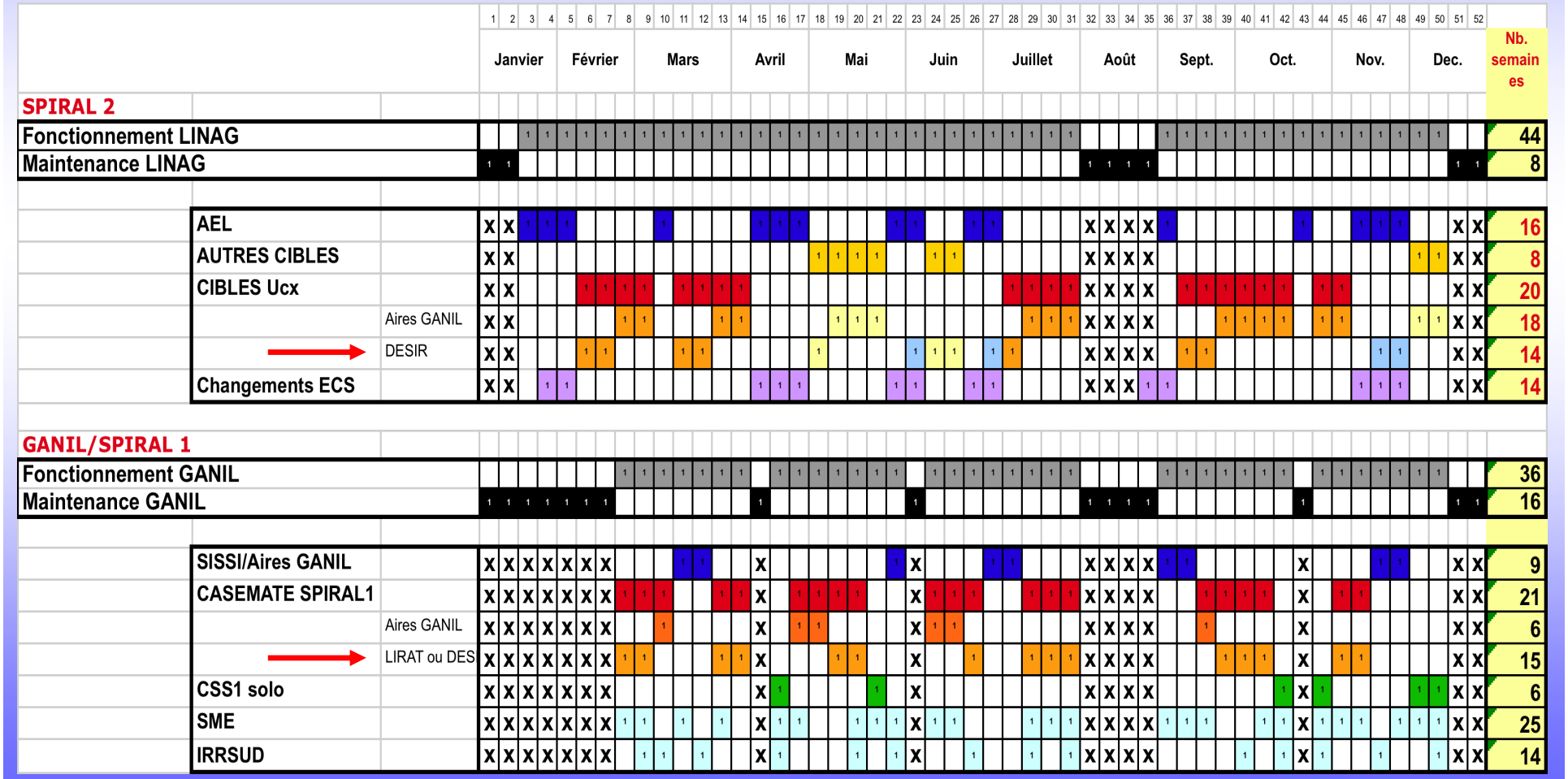
Gas & waste storage
LN2
Crane access to basement
5 m
Electronics
Desk
Access
what physics do we want to do at DESIR?

Operation of GANIL/SPIRAL1/SPIRAL2

Standard planning

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



I am looking forward
to an
exciting physics program
at
DESIR

Thanks for your attention