

AIDA

WP7.2: Access to UCLouvain

AIDA - Final Meeting

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UCLouvain

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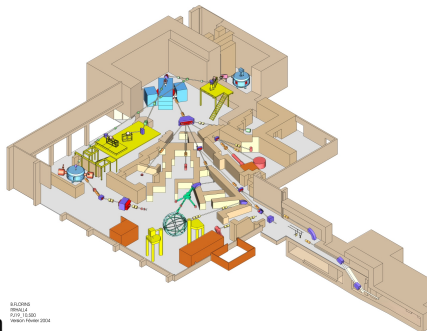
CRC facilities at Louvain-la-Neuve

Located at Louvain-la-Neuve (~ 20 km from Brussels)

Institut de Recherche en Mathématique et Physique (IRMP)
Center for Cosmology, Particle Physics and Phenomenology (CP3)
Centre de Ressources du Cyclotron (CRC)

Three irradiation facilities

- NIF: Neutron Irradiation Facility
 - ▶ Fast Neutrons (0-50 MeV)
 - ▶ Flux: $10^{11} \text{ n}/(\text{cm}^2 \text{ s})$
- LIF: Proton Irradiation Facility
 - ▶ Protons 10-60 MeV
 - ▶ Flux: $5 \times 10^8 \text{ p}/(\text{cm}^2 \text{ s})$
- HIF: Heavy-Ion Irradiation Facility
 - ▶ Heavy Ion "cocktails"
 - ▶ Electronic failures induced by radiation



Irradiations: Some numbers

- 25 projects
- 3 PM for user support 11800 EUR
- 250 irradiation hours in 4 years 89965 EUR
- User's visits+travels+... 34570 EUR

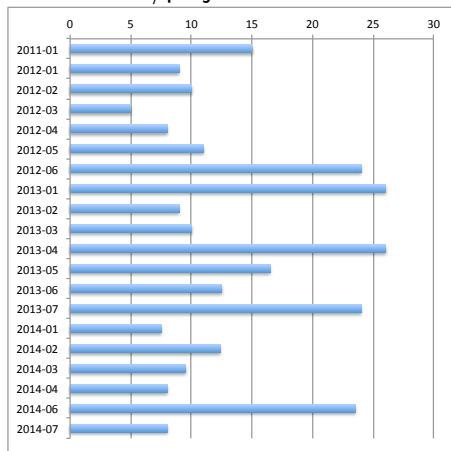
Year	Irradiations	p/n/hi	# access	Hours
2011	0/1	0/1/0	0	15
2012	2/6	2/4/0	7	67
2013	7/7	4/3/0	19	124
2014	5/6	3/2/1	13	69
Total	14/20	9/10/1	39	275

Projects statistics

Silicon sensors	6
Materials (glues ...)	2
ROC	4.5
SiPMs	3
Optical Fibers	4
RPC	0.5

CMS	5.5
ATLAS	0
LHCb	4.5
RD50	4
NA62	3
LHC	3

Beam hours/project



Conclusions

- 20 projects carried out (25 foreseen)
 - ▶ 9 with protons, 10 with neutrons and 1 with heavy ions
- 275 irradiation hours delivered (250 foreseen)
- 39 users present during 14 of the irradiations
 - ▶ Needed in case of complicated setup

- Lots of interactions with the users ... but ...
- almost no return on publications/presentations by the users.

- Efficient organisation of USP
- We have "survived" an EU audit !!!
 - ▶ 6 auditors asking questions during 3 days
 - ▶ USP - TA application webpage turned out very useful