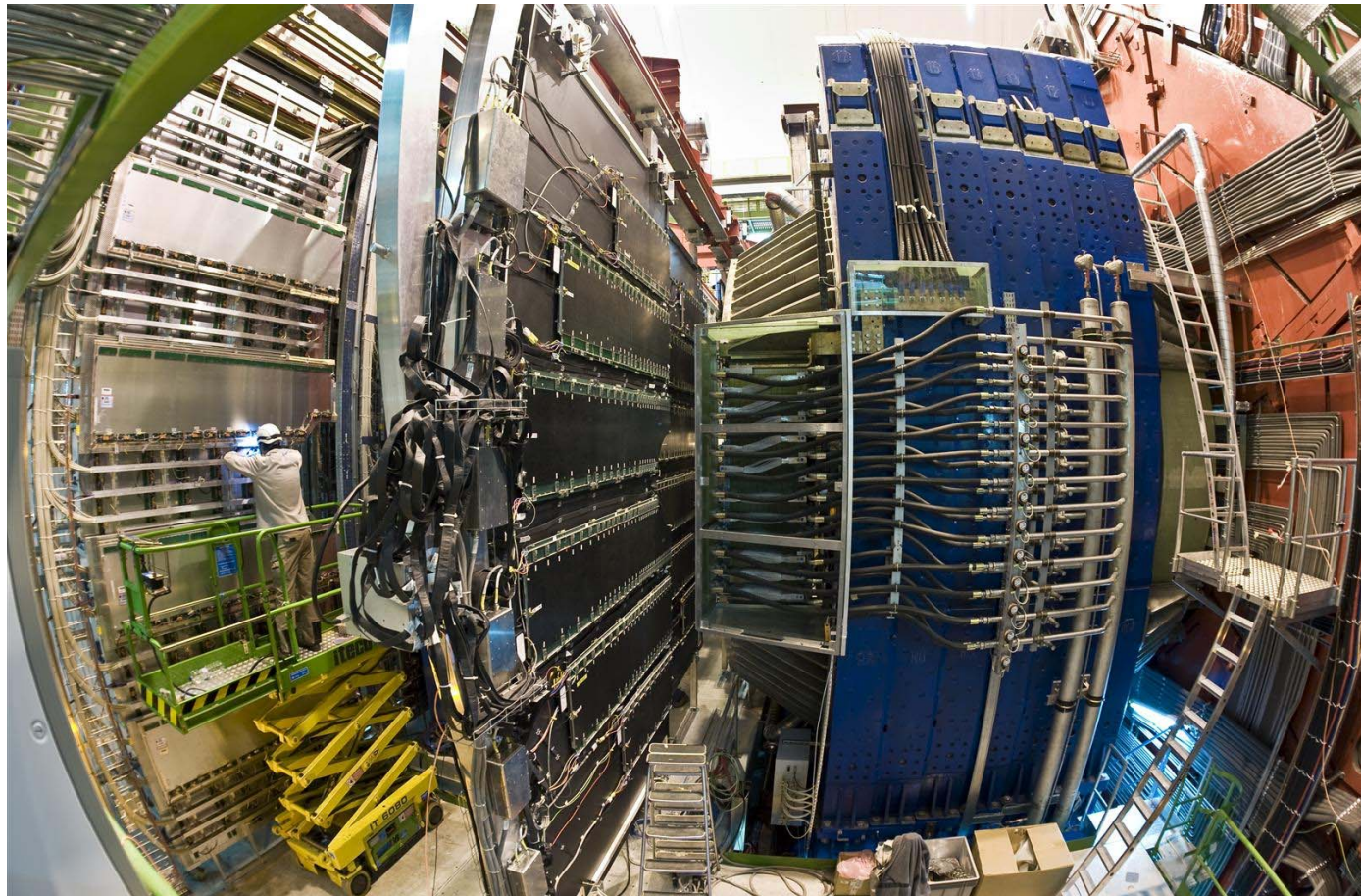


Réorganisation ALICE-muons 2008

Project Leader	F. Staley (CEA Saclay)	=> E. Vercellin (INFN Turin)
Deputy project leader	E. Vercellin (INFN Turin)	=> G. Martinez (Subatech)
Coordonateur physique	G. Martinez (Subatech)	=> P. Crochet (LPC Cfd)
Coordonateur MTK	H. Borel (CEA Saclay)	=> H. Borel (CEA Saclay)
Deputy coordonateur MTK	C. Finck (Subatech)	=> non remplacé
Run coordonateur MTK		=> C. Suire (IPNO)
Coordonateur MTG	A. Musso (INFN Turin)	=> P. Dupieux (LPC Cfd), ec
Deputy coordonateur MTG		=> A. Piccotti (INFN Turin), ec
Run coordonateur MTG		=> Yong-Wook Baek (LPC Cfd)
Coordonateur offline	I. Hrivnacova (INPO)	=> I. Hrivnacova (INPO)
Deputy coordonateur offline	G. Martinez (Subatech)	=> L. Aphecetche (Subatech)
Coordonateur offline MTG	P. Crochet (LPC Cfd)	=> B. Vulpescu (LPC Cfd)

Muon Trigger

- Search for (muon) tracks in ~ 800 ns
- Deliver signals for single μ , like-sign and unlike-sign μ pairs, above 2 p_T thresholds, each 25 ns



LPC Clermont-Fd

- FEE
- Electron. Trigger

Subatech Nantes

- Electron. Trigger
- DaQ

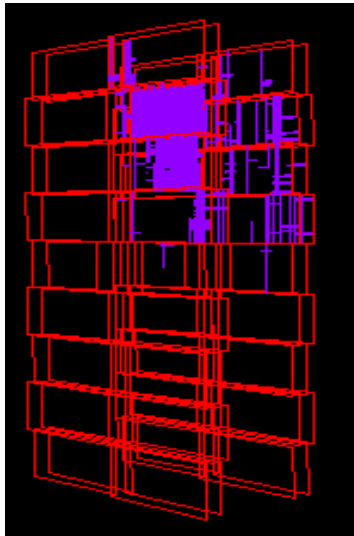
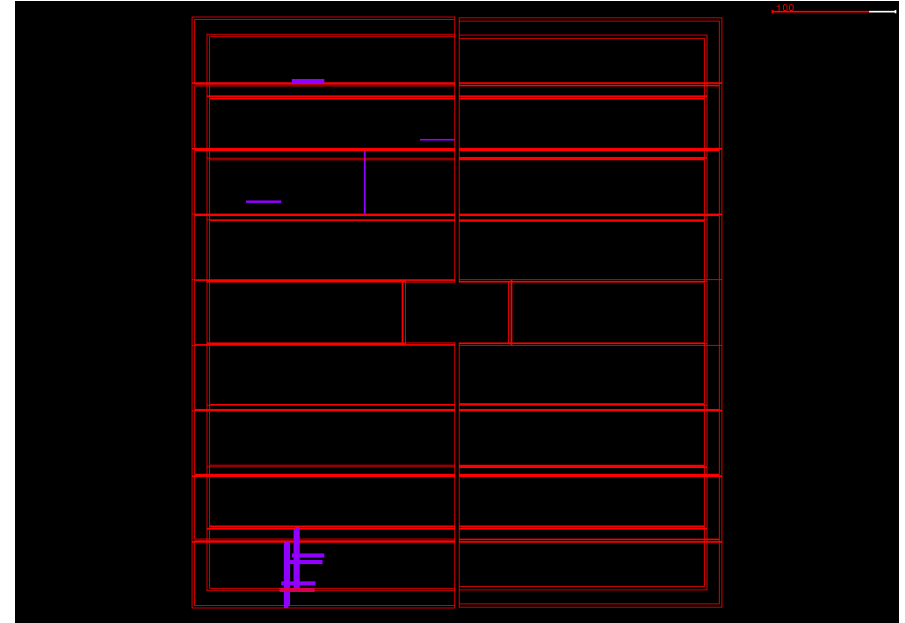
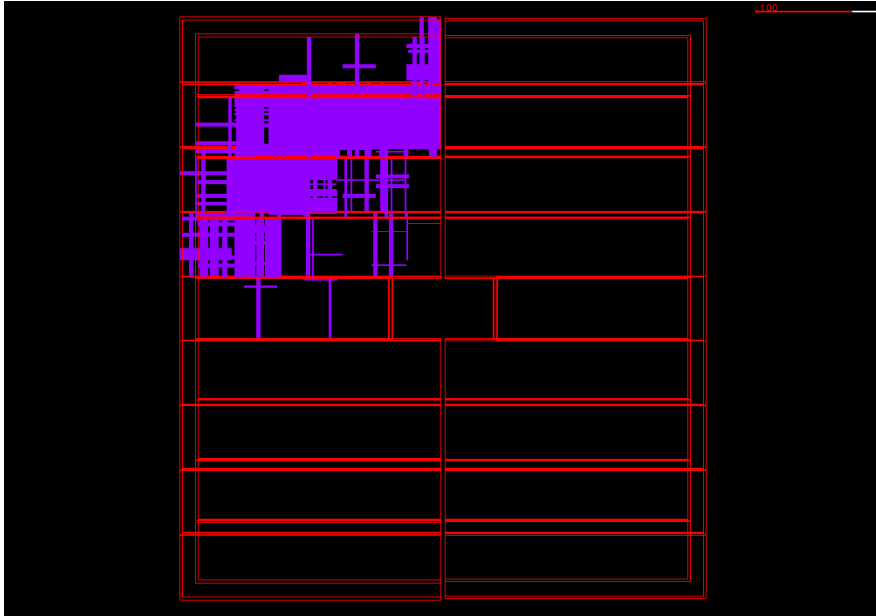
INFN Turin

- Détecteurs RPCs
- Structure mécan.

Muon Trigger status (ALICE TB, Sept 08)

- **RPCs** : *all 72 RPCs o.k. – $I < 4.4 \mu\text{A}$ at HV-nominal*
- **FE electronics (21 kch)**: *o.k.*
- **Trigger electronics**:
 - Local boards (242 units): *o.k.*
 - Regional boards (16 units): *o.k. except readout (should be fixed soon)*
 - Global board (1 unit): *o.k.*
- **DAQ**: DARC cards (2 units), *o.k.*
- **DCS**: *o.k.*
- **Alignment**: *o.k.*

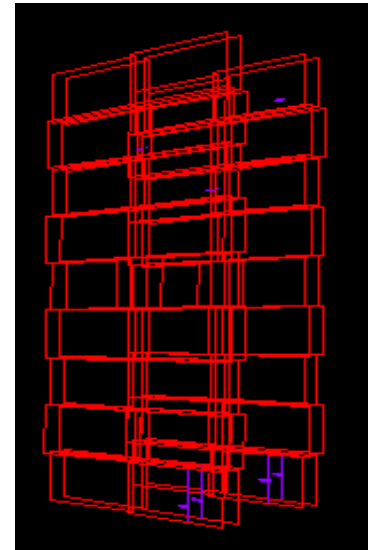
Cosmic run – event display



Cosmic ray shower

Single (muon) track

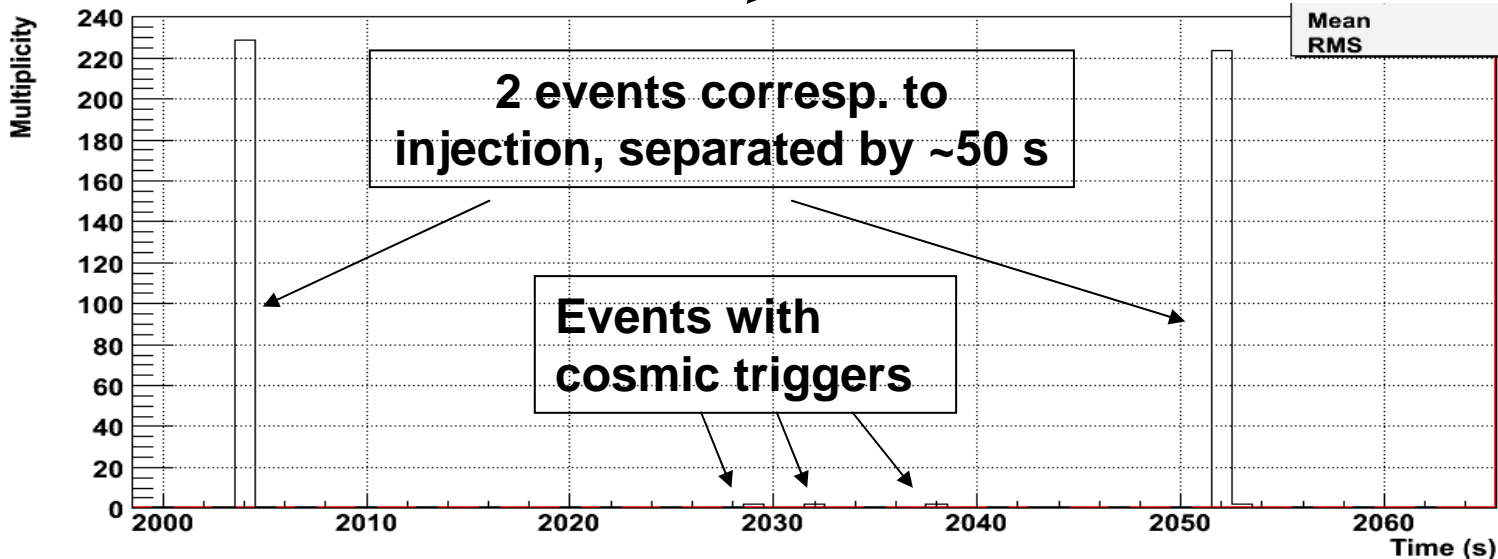
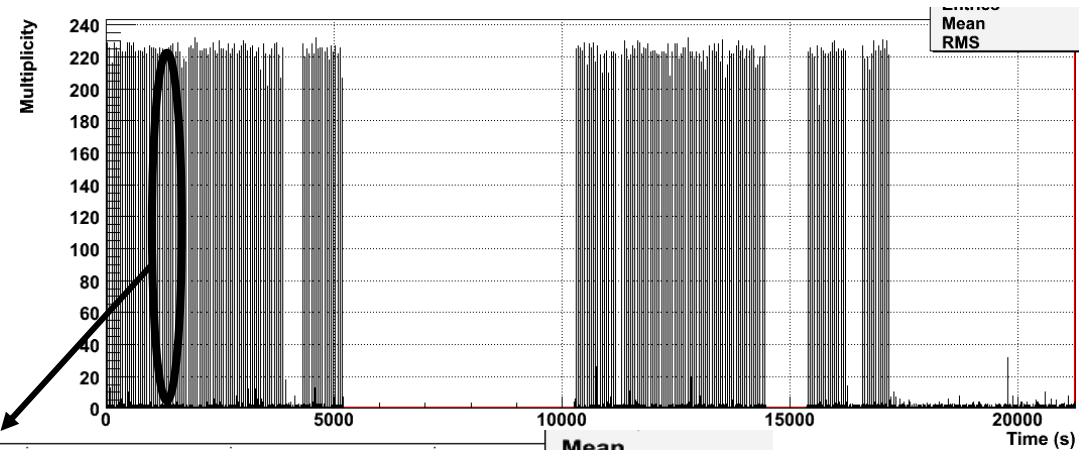
- Cosmic rate ~ 0.15 Hz (~40% muon + 60% shower)
- Acceptance for almost horizontal tracks only



August 2008 injection test

1 bunch of $\sim 5 \cdot 10^9$ protons from SPS injected each 50 seconds

- ⇒ More than 220 tracks online-detected at each injection (max = 234)
- ⇒ Most of the 21k strips fired
- ⇒ Effect of “beam screens”



Conclusions (ALICE TB, Sept 08)

- Muon Trigger system basically ready to start data taking
 - DA not fully tested yet (to come soon)
 - Some operations for improving existing setup as well as some maintenance already foreseen during winter shutdown
 - Some incident with gas system
- Risque : tenue au flux, selon le taux de particules d'interactions beam-gaz en p-p

Demandes de support en cours

1-) PICS entre ALICE-LPC-Clermont et Dubna : 27.5 K€(total sur 3 ans), réponse début 2009

“Study of quarkonia production in the ALICE experiment at LHC using the muon spectrometer” : collisions p-A essentiellement.

2-) Demande de support à la région Auvergne pour l’analyse (1 post-doc sur 2 ans pour ALICE-Clermont) et le calcul (co-financement d’une “AF” locale) : « Soutien aux Analyses de Physique auprès du grand collisionneur LHC »

Demande commune des 3 manips LHC du LPC Clermont-Fd; dépôt du dossier en fin d’année 2008.