Team Infrastructure

| 0 | Detector | Support | System |
|---|----------|---------|--------|
| | | | |

- Low Voltage (Preamp, Digitiser...)
- High Voltage System
- Cryogenic Autofill
- Process Control
- Graphical User Interface (TH)
- Host Laboratories
- Grounding (NK)

Meetings 2010:

| 21/ | 01 (| (Legnaro) | |
|------|------|-----------|--|
| — ., | • | (5)::<:- | |

15/02

09/03

06/04

27/04

11/05

16/06

01/07 (GSI)

07/07

08/09

15/10

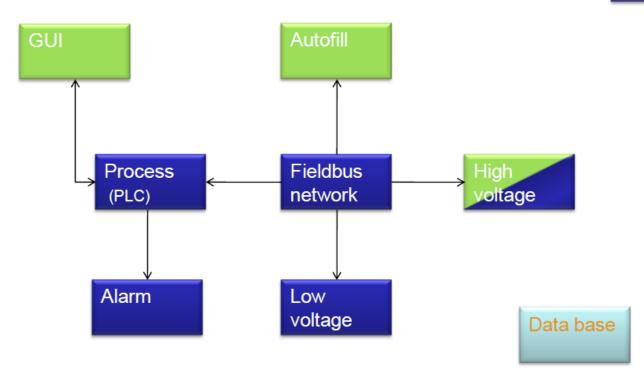
04/11





DSS Overview









Low Voltage

- lrfu CCO saclay
- Low voltage:
 - 5 crates installed
 - 14 crates altogether(9 Saclay, 2 Legnaro, 3 Munich)
 - Manual controls on front panel have been added for lab purpose



Changes to current readout Communications Stability Installation Dec for 5







Low Voltage Filter

- Oscillation problems have been solved
 - 15 m long cable
 - Voltage control

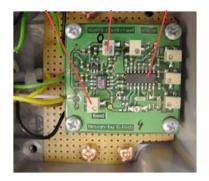
1st version of the filters





2nd version of the filters in the proposed CTT box

2010:
Awaiting tests at
LNL
Integration into
Cryostat
Integration of LN2
monitor





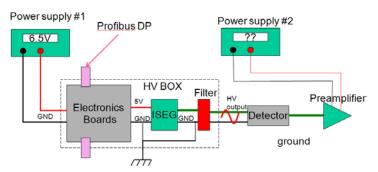
Irfu

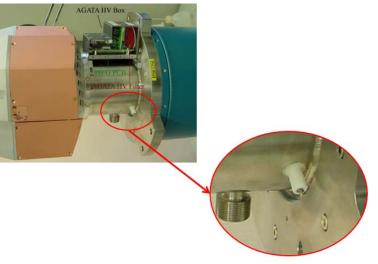
saclay

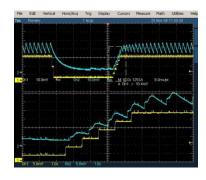


High Voltage









2010: Problems 2009/10 Back down to CTT filter

Visit to ISEG 26th April Design study at Saclay; 2 options (integrated filter)

Currently: New study based on exisiting, but improving EMC, humidity and involving possible cryostat modification

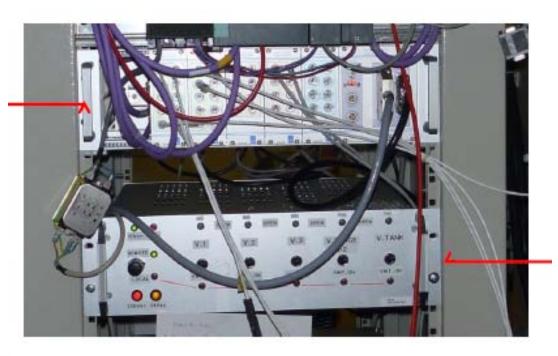




Cryogenic Autofill

2 Crates

- Profibus IO crate: On site for 2 years
- Valve Control Crate: Replaced by LNL VCC



2010:

Ongoing tests at GSI (TASCA autofill)

Problems with crates

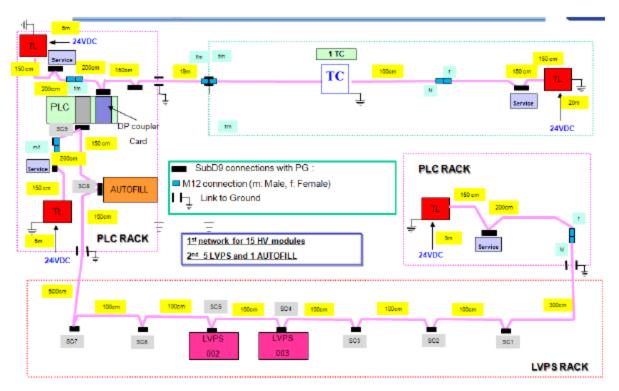
To be delivered to Saclay then LNL





DSS Infrastucture

Modular approach for 8 TC's Front end cabling



2010:

Installation for future sites review

Saclay maintain LNL phase & prepare documentation

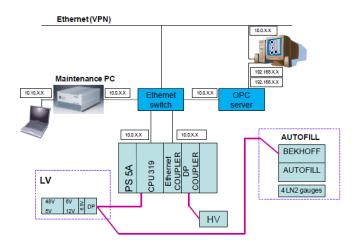
GSI installation discussions ongoing





DSS PLC / Control / GUI

PLC running, stable OPC server allows flexibility for upgrades / integration





2010: Running OK Small upgrades Status messages

T. Habermann





Alarms

Hardware alarms from PLC to LNL Telephone Dialer

Alarms

- Inputs:
 - Valves are supplied (checks 24V PS)
 - Profibus network OK
 - UPS (status, mains present, imminent shutdown)
 - PLC watchdog.
- 4 different alarm messages to send:
 - Hardware Status
 - Autofill Status
 - Communication Status
 - Non critical alarms (Detector Too Hot, LV or HV off, UPS on batteries)

2010:

Priority for 2010
Decision taken
Summer 2010
Hardware ready
October 2010
Installation Dec
2010



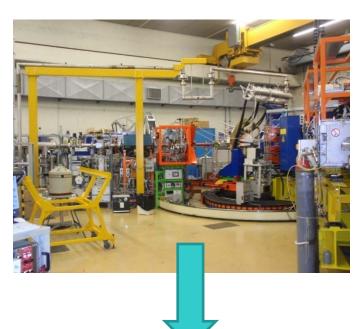
Host Labs

















Project Manager

Enrico Farnea

Infrastructure

E.Farnea

Detector test and maintenance

F.Recchia / D.Bazzacco / D.Rosso

Detector alignment and mounting

E.Farnea / C.Fanin

Beam line and scattering chamber

J.J.Valiente-Dobon / A.Gottardo

Ancillary detectors

J.J.Valiente-Dobon / A.Gottardo / D.Mengoni

Autofill

E.Farnea / D.Rosso / P.Cocconi / R.Menegazzo

LVPS

E.Farnea / P.Cocconi

Digitizers

D.Bortolato / D.Bazzacco

Preprocessing Hardware

D.Bortolato / M.Bellato

Preprocessing Software

D.Bortolato / D.Bazzacco

Infrastructure

UPS: LNL Services

Racks: D.Bortolato / A.Colombo

PSA / DAQ Hardware

M.Gulmini / P.Molini

PSA/DAQ Software

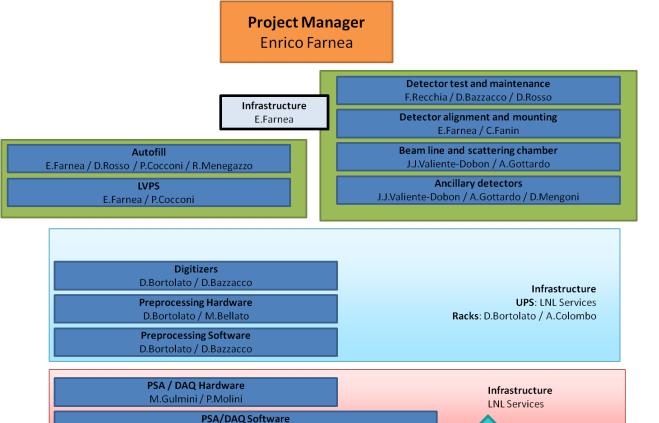
D.Mengoni / D.Bazzacco / F.Recchia / P.Molini / N.Toniolo

Infrastructure

LNL Services







D.Mengoni / D.Bazzacco / F.Recchia / P.Molini / N.Toniolo

GSI AGATA Infrastructure Contacts

Henning Schaffner h.schaffner@gsi.de
Plamen Boutachkov p.boutachkov@gsi.de
Cesar Domingo c.domingo@gsi.de
Stephane Pietri s.pietri@gsi.de





AGATA PROJECT

EMC and GROUNDING

REPORT ON THE EMC EXPERTISE TESTS HELD @ PADOUA ON 08/07/2009

By: N. KARKOUR, A. CHAROY, A. RICHARD and M. TRIPON

Grounding





2010: Follow NK developments Cabling, Cryostats..





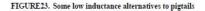
arge copper to connect the 2 res the width should be

18.13.1.EMC performance

and connect with

han the length.

- AGATA front-end EMC performance is to be measured at both the low and the high frequencies.
- The 50Hz noise is to be less than $100\mu V$ rms.
- The high-frequency noise in a range 100 kHz 100 MHz is to be less than 5mV maximum amplitude.





10th AGATA Week, Lyon 22-26 November 2010





Summary

Milestones 2010

- •Equipment of the LNL detector laboratory
- •HV box: fix the problems with the ISEG module
- •Alarms to be instrumented and finalised
- •Grounding: improvement along the physics campaign
- •DSS: All LV to be delivered, patch boxes to be finalised

Ongoing

- •New Manager at Saclay (Marc Karolak)
- •LV units (Saclay) (aiming 8/14) & patch boxes (LNL + CTT)
- •HV development plan December 2010
- •Alarms: December 6th
- •Preperations for Installation for GSI 2012



