

CALIBRATIONS WITH EXTERNAL GENERATOR

TIME CALIBRATION (TC) WITH THE ORTEC GENERATOR

Configuration DAS – CALIMERO STEPS:

- I Low and High voltages ON on MUST2 ; T -5°C
- II Connect the Time Calibrator (slide 2)
- III Exit from the experiment run control e** : acqmenu::
Type TK then KALL in the Menu then return (twice)
Launch again: RC
- IV Run Control with MUST2 stand-alone. *If the experiment is in the stage of a coupled mode with Cats and other detectors, first goto the Das menu for the CENTRUM and disconnect the slaves to do the Time Calib*
- IV DAS configuration correctly set for CALIMERO, GMT with only MM triggers
- V Be sure that the MUVI configuration is correct, see reference pages.

BT ON , HT ON telescopes DSSD

Check that the Time calibrator is ON !!

ELECTRONICS
SETTINGS

GENE EXTERNE
TIME CALIBRATOR
ORTEC 462

TIME Calibration MUST2 MATE

*Period 20ns
Range 640 ns*

START

STOP

start

start

Width > 40 μ s

DGG

DGG

Width > 100ns

*Gate and Delay
DGG Lecroy 222*

NIM

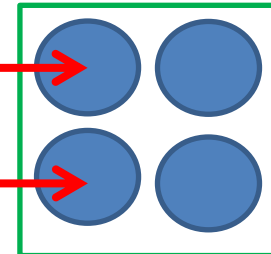
NIM

INPUT
SYNCHRO-TEST
« SYTST »

INPUT
STOP

MUVI

MUVI CARD



RUN CONTROL

Run Control **RC**

select the configuration .xml corresponding to the Must2 « stand alone » mode:

OPEN in the MENU « File » of the NARVAL window of Run control

Select **e7**Muvi.xml**

WAIT

In the Menu select Mode : change from Editing to **Monitoring** Mode

Click on **INIT** → all actors should have « blue » frame

Then it will be ready to start once the DAS is correctly set.

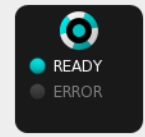
Check the double Path for the storage:

/data/e7**X/e7**/acquisition/run/

/media/USBDISK/e7**/run



oring mode



e628



RUN
CONTROL



WATCHER CALIMERO

Messages			
Date	Level	Logger	Message
	INFO	ALL	Filter
11/03/2014 10:09:13	INFO	rcc	configuration saved in /home/e628/ganacq_manip/e628/e628_Muvi.xml
11/03/2014 10:07:42	ERROR	vme	OUTPUT on ganlx14 : SBUF - - TcpWrite()
11/03/2014 10:07:41	INFO	rcc	finished execution of STOP
11/03/2014 10:07:19	INFO	rcc	received STOP
11/03/2014 10:06:44	INFO	rcc	finished execution of START
11/03/2014 10:06:41	INFO	vme	OUTPUT on ganlx14 : SBUF - Tape Server connected -
11/03/2014 10:06:40	INFO	rcc	received START
11/03/2014 10:06:18	ERROR	vme	OUTPUT on ganlx14 : SBUF - - TcpWrite()
11/03/2014 10:06:13	INFO	rcc	finished execution of STOP
11/03/2014 10:06:01	INFO	rcc	received STOP
11/03/2014 10:04:09	INFO	rcc	finished execution of START
11/03/2014 10:04:07	INFO	rcc	received START
11/03/2014 10:04:07	INFO	vme	OUTPUT on ganlx14 : SBUF - Tape Server connected -

Nettoyer la config avant de démarrer
(ou en cas de problème de blocage répété sur Calimero)
fenêtre du Menu de l'acquisition : pour tuer tous les process
Tk puis kall

Fenêtre Acqmenu Terminal

Taper : RC

Attendre la fenêtre du run control (**RC**)

Sélectionner le fichier correspondant à la config Must2 seul ...Muvi.xml

Vérifier la séquence de START /STOP (Menu Setup du RC → LIST)

STORAGE: ON ; Vérifier le path (disque data + disque Usb suivant les cas)

Fenêtre RC cliquer sur INIT :

attendre que tous les acteurs/VXI soient bleus. Sinon reprendre le INIT.

DAS: configurer pour les calibs Calimero (*cf pages suivantes*)

Fenêtre RC : cliquer sur START, attendre que tous les rectangles soient verts

DAS >>> fenêtre généré Calimero, Appuyer sur le start

Attendre les 100%, quand la Fenêtre de progression Calimero disparaît - attendre

Puis cliquer sur STOP dans le RC

Avant de lancer le run Calimero,

- Vérifier les signaux de déclenchement sur chaque carte CAS de Muvi → ORDi
- Vérifier la configuration des Mates :
 - gamme des TAC, seuils à 402 keV, polarité des Mates X +, Mates Y -
- Vérifier le GMT : configuration MUVI GMT , IN1 à IN4
- VÉRIFIER que la seule source de déclenchement physique des CAS est le géné, i.e. pas de source alpha (ou bien la tourner pour qu'elle ne soit pas face aux Must2 en cours de calib en temps) pas de géné interne sur les MufeeY quand on lance la calib Calimero sur les MufeeX
- Vérifier qu'il ne reste pas le signal d'horloge interne (cf page DAS de MUVI)
 - synchro test généré par l'horloge CKTST → non (rouge)

Run Control **RC** se mettre dans une configuration .xml qui correspond au mode « stand alone » de Must2.

GMT TRIGGERS

File Utilities Update Acquisition Visualization Option Reserved Help

Add Crate Delete Crate Online e628

CATS MUST2

VXI Crate:1 Cpu: ganix14 Add Module Delete Module Move module Change CPU

INSPECTION GMT CENTRUM MUVI ADC U2M

[GMT Slot(2), Type(GMT)]

User Interface Generic Interface Parameters

Input Channel

1: MM1	NIM
2: MM2	NIM
3: MM3	NIM
4: MM4	NIM
5: Cats1div	NIM
6: Cats2div	NIM
7: TIARA	NIM
8: CHARISSAdiv	NIM
9: EXOGAMdiv	NIM
10: GMT_10	NIM
11: Hyball	NIM
12: Barrel	NIM
13: GMT_13	NIM
14: GMT_14	NIM
15: GMT_15	NIM
16: GMT_16	NIM
MTI	NIM

Inputs Output

General Configuration Analysis modes Sampling Time Markers Data Block GMT Coupling

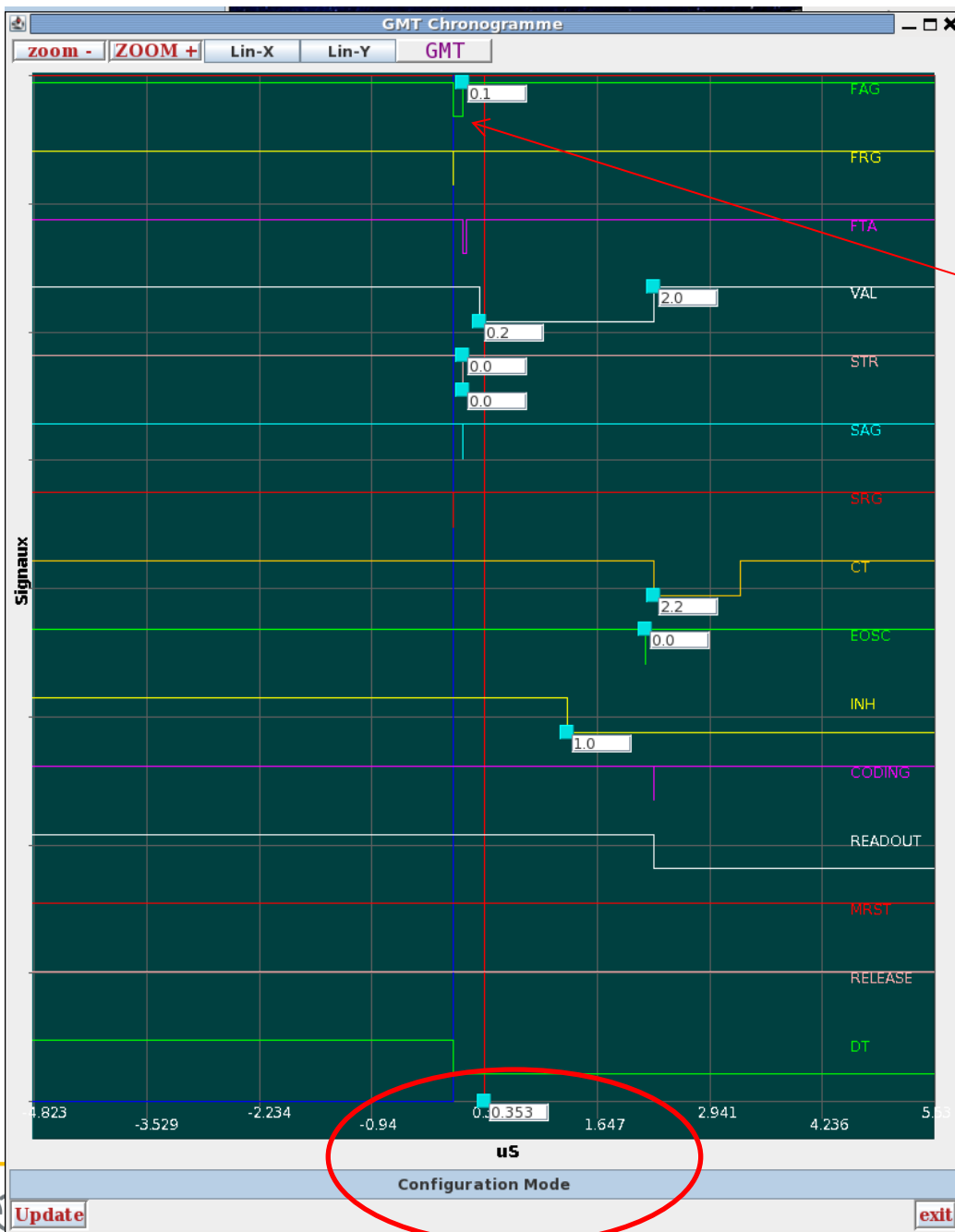
Test

Check GMT chronogramme

Expert Registers Access

Modified Tuesday, March 11, 2014 9:10:41 AM Document :: : SUCCESS < e628.das >

GT chronogramme



CENTRUM: initial configuration of the CENTRUM for e7**

CENTRUM: disconnect the slaves to do the Time Calib

Utilities Update Acquisition Visualization Option Reserved Help

Add Crate Delete Crate Online e628

CATS MUST2

Crate: 1 Cpu : ganlx14 Add Module Delete Module Move module Change CPU

INSPECTION_ GMT CENTRUM MUVI ADC U2M

CENTRUM Slot(4), Type(CENTRUM)]

User Interface Generic Interface Parameters

RX TX1 CATS

Master OFF

Mode

Local OFF

Sent... When hit

Delay TAG 0 ns

Universal clock

Input clock

VXIGO signal

PreLoad

Clock reset

Expert Label Reserved

Modified Tuesday, March 11, 2014 10:10:19 AM Document :: : SUCCESS < e628.das >

CHECK MUVI CONFIGURATIONS

in electronic setup
and
physicist setup

MUVI configuration (for Exp and for Calib)

GANIL DAS v14.03-03 [Language : English(en)] must2

File Utilities Update Acquisition Visualization Option Reserved Help

Add Crate Delete Crate Online MUST2

VXI Crate : 1 Cpu : ganlx11 Add Module Delete Module Move module Change CPU

INSPECTION GMT MUVI1 MUVI2 ADC U2M CENTRUM

[MUVI1 Slot(5), Type(MUVI)]

User Interface Generic Interface Parameters

☒ Electronics Setup
☐ Physicist Setup

MUVI

- CAS/TELESCOPE 1
- CAS/TELESCOPE 2
- CAS/TELESCOPE 3
- CAS/TELESCOPE 4

Mode Acquisition

Temps mort commun

Mode Lecture Donnee

VME Standard

Cycle d'acq courants de polarisations

Executer Lecture

Entree STOP terminee sur 50 Ohms

out

RAZ Automatique

Horloge Locale

Test

Synchro Test

Echelles

Nom	Comptage	M/A
ORD1	104816	☒ Lire RAZ
DECS1	55721	☒ Lire RAZ
STOP1	55721	☒ Lire RAZ
ORD2	330743103	☒ Lire RAZ
DESC2	73916	☒ Lire RAZ
STOP2	159597949	☒ Lire RAZ
ORD3	112612	☒ Lire RAZ
DECS3	59995	☒ Lire RAZ
STOP3	59995	☒ Lire RAZ
ORD4	109604	☒ Lire RAZ
DECS4	55600	☒ Lire RAZ
STOP4	55600	☒ Lire RAZ
VAL	199752	☒ Lire RAZ
STOP	0	☒ Lire RAZ
CK_TST	469	☒ Lire RAZ
ST_BUS	0	☒ Lire RAZ

Lecture RAZ

Modified Monday, June 12, 2017 6:37:43 PM Document : : SUCCESS < must2.das >

CONFIGURATION DAS
PAGE CAS/Telescope
ENTRÉE STOP de MUVI : sur 50 Ohms

MUVI Configuration (for Exp and Time Calib)

File Utilities Update Acquisition Visualization Option Reserved Help

Add Crate **Delete Crate** **Offline**

TIARA **DISCRI_TIARA** **CAENET** **CATS** **MUST2** **EXO GAM** **VXI_CHARISSA**

VXI Crate : 1 Cpu : ganlx14 **Add Module** **Delete Module** **Move module** **Change CPU**

INSPECTION **GMT** **CENTRUM** **MUVI** **ADC** **U2M**

[MUVI Slot(6), Type(MUVI)]

User Interface **Generic Interface** **Parameters**

DECS4 0 **Lire** **Raz**
STOP4 0 **Lire** **Raz**
VAL 0 **Lire** **Raz**
STOP 0 **Lire** **Raz**
CK_TST 0 **Lire** **Raz**
ST_BUS 0 **Lire** **Raz**
Lecture **RAZ**

Test
-Synchro Test-
SYN_TST genere par ST_BUS : **0000**
SYN_TST genere par l'horloge CKTST interne MUVI : **0000**
CKTST : 0.3 4.8 76.8 12299830 153.6 Hz
Generation d'un signal STOP de test a partir de SYN_TST : **0000**
Retard : 0 100 200 300 0 ns
EXPERT
Confirm Setup

Modified Wednesday, March 5, 2014 12:24:25 PM ADC_8 : Add Module < e628.das >

TAC Range on Mate (for Exp and for Calib)

File Utilities Update Acquisition Visualization Option Reserved Help

Add Crate Delete Crate Offline

TIARA DISCRI_TIARA CAENET CATS MUST2 EXOGAM VXI_CHARISSA

VXI Crate: 1 Cpu : ganlx14 Add Module Delete Module Move module Change CPU

INSPECTION GMT CENTRUM MUVI ADC U2M

[MUVI Slot(6), Type(MUVI)]

User Interface Generic Interface Parameters

Electronics Setup
Physicist Setup

MUVI

CAS/TELESCOPE 1

MUFEE X

MATE 1

MATE 2

MATE 3

MATE 4

MATE 5

MATE 6

MATE 7

MATE 8

MATE SiLi

MUFEE Y

CAS/TELESCOPE 2

MUFEE X

Autorisation des Voies

Voie : 1 2 3 4 5 6 7 8
1 a 16 9 10 11 12 13 14 15 16

Seuils des discriminateurs

Seuil : + - 0 1000 401.57 keV

Charge test Qt

Voie en test : ☒ Aucune ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16

Configuration et Requete Mate

Mode de Lecture : ☒ Energie & Temps ☐ Energie seule

Constante Shaper : ☒ 1us ☐ 3us

Gain du PAC : ☒ Si ☐ SiLi ☐ CSi ☐ ...

Gamme de conversion du TAC : ☐ 3 ns ☒ 600 ns

EXPERT

600 ns

Modified Wednesday, March 5, 2014 12:31:51 PM ADC_8 : Add Module < e628.das >

Discriminator thresholds, polarities of the MufeeX/MufeeY

GANIL DAS v14.03-03 [Language : English(en)] must2

File Utilities Update Acquisition Visualization Option Reserved Help

MUST2

VXI Crate: 1 Cpu : ganlx11

Add Crate **Delete Crate** **Online** **must2**

INSPECTION GMT **MUVI1** MUVI2 ADC U2M CENTRUM

[MUVI1 Slot(5), Type(MUVI)]

User Interface Generic Interface **Parameters**

Confirm Setup

☐ Electronics Setup
☒ Physicist Setup

Global Setup
 Initialization
 Disable Channels
 Pedestal
Discriminator Threshold
 Gain and Shaper
 Control
 Test Generator

Sector: MUVI1 Sector 1

KeV																		KeV
100%																		
	MATE 1 - Si Junction pistes 1-16	MATE 2 - Si Junction pistes 17-32	MATE 3 - Si Junction pistes 33-48	MATE 4 - Si Junction pistes 49-64	MATE 5 - Si Junction pistes 65-80	MATE 6 - Si Junction pistes 81-96	MATE 7 - Si Junction pistes 97-112	MATE 8 - Si Junction pistes 113-128	MATE 9 - Si Ohmique pistes 1-16	MATE 10 - Si Ohmique pistes 17-32	MATE 11 - Si Ohmique pistes 33-48	MATE 12 - Si Ohmique pistes 49-64	MATE 13 - Si Ohmique pistes 65-80	MATE 14 - Si Ohmique pistes 81-96	MATE 15 - Si Ohmique pistes 97-112	MATE 16 - Si Ohmique pistes 113-128	MATE 17 - SiLi voies 1-16	MATE 18 - CSi voies 1-16
50%	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	2000	2504
0%																		
	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	+	-

Confirm Setup

Modified Monday, June 12, 2017 6:38:53 PM Document :: : SUCCESS < must2.das >

MUVI, MATE gain and shapers

GANIL DAS v14.03-03 [Language : English(en)] must2

File Utilities Update Acquisition Visualization Option Reserved Help

MUST2

VXI Crate : 1 Cpu : ganlx11

INSPECTION GMT MUVI1 MUVI2 ADC U2M CENTRUM

[MUVI1 Slot(5), Type(MUVI)]

User Interface Generic Interface Parameters

Confirm Setup

☐ Electronics Setup
☒ Physicist Setup

Global Setup

- Initialization
- Disable Channels
- Pedestal
- Discriminator Threshold
- Gain and Shaper

Sector: MUVI1 Sector 1

	MATE 1	MATE 2	MATE 3	MATE 4	MATE 5	MATE 6	MATE 7	MATE 8
PAC gain	Si	Si	Si	Si	Si	Si	Si	Si
Shaping Constant	1us	1us	1us	1us	1us	1us	1us	1us
	MATE 9	MATE 10	MATE 11	MATE 12	MATE 13	MATE 14	MATE 15	MATE 16
PAC gain	Si	Si	Si	Si	Si	Si	Si	Si
Shaping Constant	1us	1us	1us	1us	1us	1us	1us	1us
	MATE 17	MATE 18						
PAC gain	SiLi	CSi						
Shaping Constant	3us	3us						

Config
MUfeeX
Y Mode
Expert

Parametres de calibration

Selection Mate1

Coefficient/Mate	1	2	3	4	5	6	7	8
Coeff 1	0	0	0	0	0	0	0	0
Coeff 2	0	0	0	0	0	0	0	0
Coefficient/Mate	9	10	11	12	13	14	15	16
Coeff 1	0	0	0	0	0	0	0	0
Coeff 2	0	0	0	0	0	0	0	0

Identite : 0Temperature : 0 °CSeuil haut alarme de Temperature : 0 °CSeuil bas alarme de Temperature : 0 °C

Voies en Panne

Selection Mate1

Voie :

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16

MufeeX

Tension de decalage

+0.8V-0.8VGND

Si a pistes

SiLi

Parametres de calibration

Selection Mate9

Coefficient/Mate	1	2	3	4	5	6	7	8
Coeff 1	0	0	0	0	0	0	0	0
Coeff 2	0	0	0	0	0	0	0	0
Coefficient/Mate	9	10	11	12	13	14	15	16
Coeff 1	0	0	0	0	0	0	0	0
Coeff 2	0	0	0	0	0	0	0	0

Identite : 0Temperature : 45 °CSeuil haut alarme de Temperature : 0 °CSeuil bas alarme de Temperature : 0 °C

Courant des pistes Si (cote ohmique)

Selection Mate9

	Piste 1	Piste 2	Piste 3	Piste 4	Piste 5	Piste 6	Piste 7	Piste 8
Courant (nA)	0	0	0	0	0	0	0	0
	Piste 9	Piste 10	Piste 11	Piste 12	Piste 13	Piste 14	Piste 15	Piste 16
Courant (nA)	0	0	0	0	0	0	0	0

Identite : 0Temperature : 45 °CSeuil haut alarme de Temperature : 0 °CSeuil bas alarme de Temperature : 0 °C

Voies en Panne

Selection Mate9

Voie :

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16

MufeeY

Tension de decalage

+0.8V-0.8VGND

Si a pistes

CsI

Visualisation de la sortie Debug des Mates

0	10	11	12	13	14	15	16
---	----	----	----	----	----	----	----

Exit

EXP Initial configuration: pedestals in Cas/telescope

GANIL DAS v14.03-03 [Language : English(en)] must2

File Utilities Update Acquisition Visualization Option Reserved Help

MUST2

VXI Crate : 1 Cpu : ganlx11

Add Crate **Delete Crate** **Online** **must2**

Add Module **Delete Module** **Move module** **Change CPU**

INSPECTION **GMT** **MUVI1** **MUVI2** **ADC** **U2M** **CENTRUM**

[MUVI1 Slot(5), Type(MUVI)]

User Interface **Generic Interface** **Parameters**

Confirm Setup

☒ Electronics Setup
☐ Physicist Setup

MUVI

- CAS/TELESCOPE 1
 - MUFEE X
 - MUFEE Y
- CAS/TELESCOPE 2
- CAS/TELESCOPE 3
- CAS/TELESCOPE 4

Traitement Numerique

Suppression des donnees Temps en depassement : **OK**

Suppression des donnees Energie en depassement : **OK**

Donnee Energie supprime (SBE<donnee E<SBE): **OK**

Valeurs de Seuils appliques aux parametres Energie

	Seuil Haut	Seuil Bas
MATE 1 a 8	8192	8192
MATE 9 a 16	8192	8192
MATE 17	8192	8192
MATE 18	8192	8192

Normalisation des pedestaux aux valeurs brutes des ADC : **OK** **Visualisation des Piedestaux**

Application du coeff de correction de Gain (Ge/Gi) a chaque valeur numerique Nadc du parametre Ei : **OK**

Application du coeff de correction de Gain (Gt/Gj) a chaque valeur numerique Nadc du parametre Tj : **OK**

Signaux de Declenchement

- ☒ ORDi: declenchement CAS par le signal ORD de son secteur
- ☐ SYN_TST: declenchement par SYN_TST de la carte mere
- ☐ VAL: declenchement par le signal VAL (FT) issu du trigger GMT
- ☐ DECD: declenchement par le signal DECD venant de la carte mere

Reglages signaux acquisition

Periode horloge CKI : 1us 4us 8us 10us 1 us

Retard RshP(transition positive) du signal HOLDi : 975 ns

Modified Monday, June 12, 2017 6:38:23 PM Document :: : SUCCESS < must2.das >

See file to operate the
Pedestal suppression

EXP Initial configuration: suppression of pedestals in Cas/telescope

File Utilities Update Acquisition Visualization Option Reserved Help

Add Crate **Delete Crate** **Offline**

TIARA DISCRI_TIARA CAENET CATS MUST2 EXOGAM VXI_CHARISSA

VXI Crate : 1 Cpu : ganlx14 **Add Module** **Delete Module** **Move module** **Change CPU**

INSPECTION GMT CENTRUM MUVI ADC U2M

[MUVI Slot(6), Type(MUVI)]

User Interface Generic Interface Parameters

Confirm Setup

☒ Electronics Setup
☐ Physicist Setup

MUVI

- CAS/TELESCOPE 1
- CAS/TELESCOPE 2
- CAS/TELESCOPE 3
- CAS/TELESCOPE 4

Traitement Numerique

Suppression des donnees Temps en depassement : **oui**

Suppression des donnees Energie en depassement : **oui**

Donnee Energie supprime (SBE<donnee E<HE): **oui**

Valeurs de Seuil appliquees aux parametres Energie

	Seuil Haut	Seuil Bas
MATE 1 a 8	8242	8142
MATE 9 a 16	8242	8142
MATE 17	8242	8142
MATE 18	2030	1950

Normalisation des pedestaux aux valeurs brutes des ADC : **oui** **Visualisation des Piedestaux**

Application du coeff de correction de Gain (Ge/Gi) a chaque valeur numerique Nadc du parametre Ei : **oui**

Application du coeff de correction de Gain (Gt/Gj) a chaque valeur numerique Nadc du parametre Tj : **oui**

Signaux de Declenchement

- ☒ ORDi: declenchement CAS par le signal ORD de son secteur
- ☐ SYN_TST: declenchement par SYN_TST de la carte mere
- ☐ VAL: declenchement par le signal VAL (FT) issu du trigger GMT

Modified Wednesday, March 5, 2014 12:26:12 PM ADC_8 : Add Module < e628.das >

Configuration for CAS/telescopes: ORDi ok for all cases (EXP, Calib)

File Utilities Update Acquisition Visualization Option Reserved Help

Add Crate Delete Crate Offline

TIARA DISCIPL TIARA CAENET CATS MUST2 EXOGAM VXI_CHARISSA

Add Module Delete Module Move module Change CPU

ORDi For all CAS telescopes

Parameters

Signaux de déclenchement

- ☒ ORDi: déclenchement CAS par le signal ORD de son secteur
- ☐ SYN_TST: déclenchement par SYN_TST de la carte mere
- ☐ VAL: déclenchement par le signal VAL (FT) issu du trigger GMT
- ☐ DECD: déclenchement par le signal DECD venant de la carte mere

Reglages signaux acquisition

Periode horloge CKi: 1us 4us 8us 10us 1 us

Retard RshP(transition positive) du signal HOLDi: 0 600 1200 1800 975 ns

Retard RshP(transition negative) du signal HOLDi: 0 1200 2400 3600 3008 ns

Reglage du point de validation

0 1 2 0.945 us

Amplitude generateur de test interne

Amplitude: -2.5 0 +2.5 0.00003784 V Remise a zero

EXPERT

Confirm Setup

Modified Wednesday, March 5, 2014 12:26:50 PM ADC_8 : Add Module < e628.das >

CONFIGURATION OF CAS/TELESCOPE FOR TIME CALIBRATION (for all MM2)

VXI Crate : 1 Cpu : ganix7

Add Module Delete Module Move module Change CPU

INSPECTION GMT1_1_2 CEN1_1_5 ADC1_1_7 MUVI1_1_9 MUVI1_1_11

[MUVI1_1_9 Slot(9), Type(MUVI)]

User Interface Generic Interface Parameters

Confirm Setup

● Electronics Setup
○ Physicist Setup

MUVI

- CAS/TELESCOPE 1
 - MUFEE X
 - MUFEE Y
- CAS/TELESCOPE 2
- CAS/TELESCOPE 3
- CAS/TELESCOPE 4

Traitement Numerique

Suppression des donnees Temps en depassement : ☐

Suppression des donnees Energie en depassement : ☐

Donnee Energie supprime (SBE<donnee E<SBE): ☐

Valeurs de Seuils appliques aux parametres Energie

	Seuil Haut	Seuil Bas
MATE 1 a 8	8192	8192
MATE 9 a 16	8192	8192
MATE 17	8192	8192
MATE 18	8192	8192

Normalisation des pedestaux aux valeurs brutes des ADC : ☐ Visualisation des Piedestaux

Application du coeff de correction de Gain (Ge/Gi) a chaque valeur numerique Nadc du parametre Ei : ☐

Application du coeff de correction de Gain (Gt/Gj) a chaque valeur numerique Nadc du parametre Tj : ☐

Signaux de Declenchement

☒ ORDi: declenchement CAS par le signal ORD de son secteur

☐ SYN_TST: declenchement par SYN_TST de la carte mere

☐ VAL: declenchement par le signal VAL (FT) issu du trigger GMT

☐ DECD: declenchement par le signal DECD venant de la carte mere

Reglages signaux acquisition

Periode horloge CKi : us

Retard RshP(transition positive) du signal HOLDi : ns

Modified Wednesday, June 26, 2013 4:10:07 PM ADC2_1_9 : Add Module < e655s.das >

ORDI CAS

DAS CONFIGURATION

When the configuration is correctly set,
Stay on the page of the GMT of the MUST2 crate

change DAS from OFFLINE TO ONLINE

The window appears:

Click on CANCEL



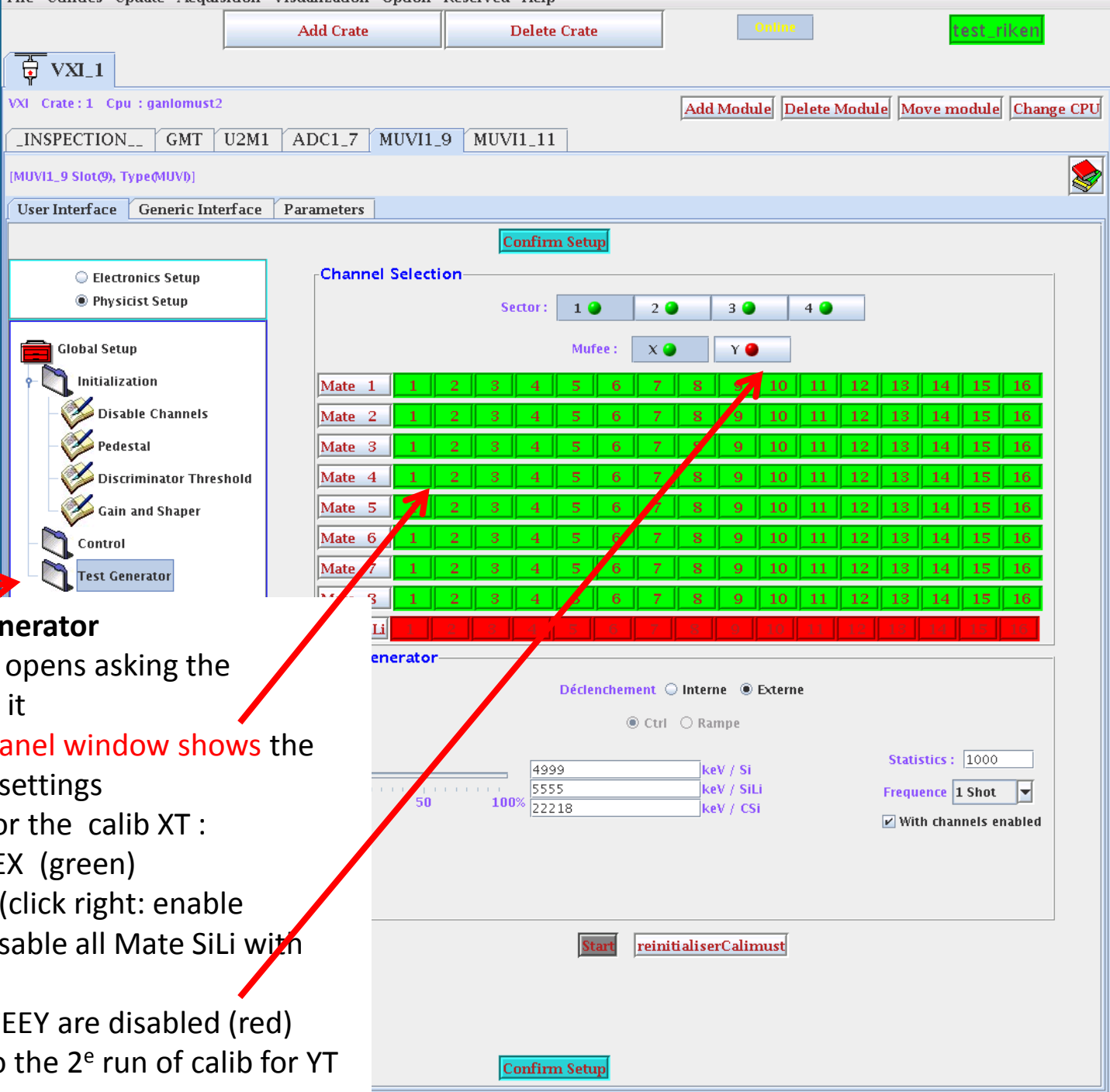
THEN (staying on MUST2 GMT module)

Go to Menu UPDATE

And select FOR THE CURRENT CRATE

write **SOFTWARE TO HARDWARE**

LAUNCHING CALIMERO



1. Click on **Test generator**
2. Then a window opens asking the password, Type it
3. Wait, and the panel window shows the Test Generator settings
4. Prepare 1st run, for the calib XT :
4. Select the MUFEEEX (green) of the 4 telescopes (click right: enable all MufeeX, then disable all Mate SiLi with click right)
- check that all MUFEEY are disabled (red) and vice-versa to do the 2^e run of calib for YT

Add Crate

Delete Crate

Online

test_riken

VXI_1

VXI Crate : 1 Cpu : ganlomust2

Add Module

Delete Module

Move module

Change CPU

INSPECTION

GMT

U2M1

ADC1_7

MUV11_9

MUV11_11

[MUV11_9 Slot(9), Type(MUVb)]

User Interface

Generic Interface

Parameters

Confirm Setup

☐ Electronics Setup☒ Physicist Setup

Global Setup

Initialization

Disable Channels

Pedestal

Discriminator Threshold

Gain and Shaper

Control

Test Generator

Channel Selection

Sector :

1

2

3

4

Mufee :

X

Y

Mate 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 6	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 7	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 8	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate SiLi	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Test Generator

Déclenchement ☐ Interne ☒ Externe☒ Ctrl ☐ Rampe

0 50 100%

4999 keV / Si
5555 keV / SiLi
22218 keV / CSI

Statistics : 1000

Frequency 1 Shot

☒ With channels enabledValue > thresholds
Typical 5 MeV

Start

reinitialiserCalimust

STATISTICS: 1000
Frequency: 1 shot
With channels enabledFIRST START DAQ
with the Run
Control
Then START here
the Calimero

GANIL DAS v9.3-31 [Langage : français(fr)] e530

Fichier Utilitaires Mise à jour Acquisition Visualisation Option Réservé Aide

Ajouter un chassis Supprimer chassis Online e530

VME_TIARA VXI_1 VXI_2 VXI_3 CAMAC CAMAC1 VME

VXI Chassis : 2 Cpu : ganlo24

Ajouter module Supprimer module Déplacer module Modifier CPU

INSPECTION GMT2_2 U2M2_4 ADC2_6 MUVI2_9 MUVI2_11

[MUVI2_9 Slot(9), Type(MUV)]

Interface Utilisateur Interface Générique Paramètres

Valider la Configuration

Configuration Matérielle
Configuration Fonctionnelle

Configuration generale

- Initialisation
- Masquage des voies
- Piedestaux
- Seuil de discrimination
- Gain et Shaper
- Contrôle
- Générateur de Test

Sélection Voie

Telescope : 1 2 3 4

Mufee : X Y

Mate	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 9	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 11	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 12	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 13	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 14	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 15	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate CSI	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Générateur de Test

Déclenchement ☐ Interne ☒ Externe

☒ Ctrl ☐ Rampe

0 50 100%

4999 keV / Si
5555 keV / SiLi
22218 keV / CSI

Statistique : 1000

Fréquence 1 Coup

☒ Avec masquage des voies

Stop Réinitialiser Calimust

Progression : GeneTest

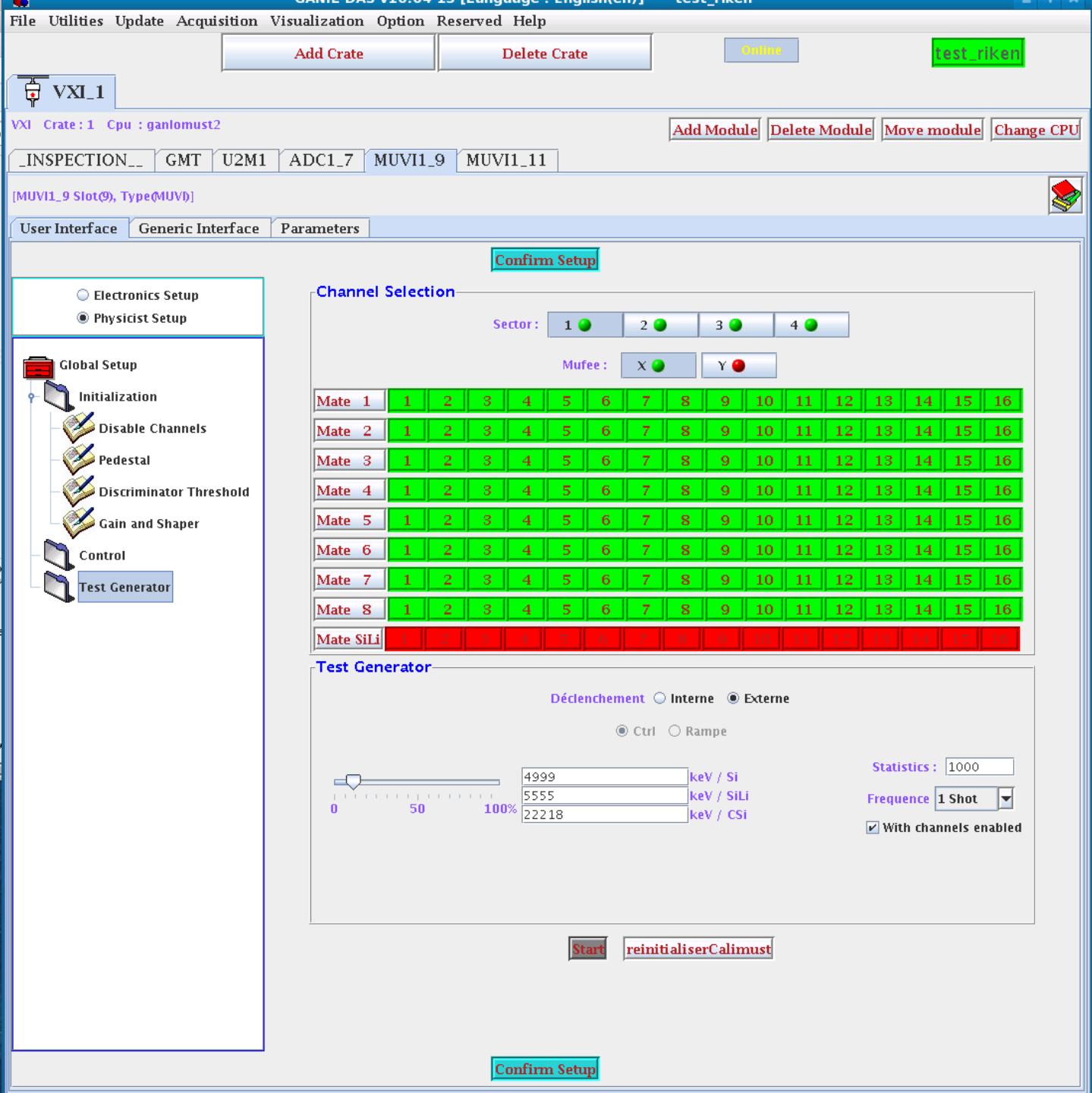
MUVI MUVI2_9 :

50%

Valider la Configuration

FIRST:
START ACQUISITION
in the Run Control
Then click on « START »
in the
Generator window

Wait for the window
showing the progress
For each Mate
channels 1: 6%
All ch. 2 13%
3: ...
14: 88%
channels 15: 94%
Wait till the end to stop
the Run in the RC window



Problem MUVI- Temperature Alarm

GANIL DAS v13.06-27 [Language : English(en)] e655s

File UTILITIES Update Acquisition Visualization Option Reserved Help

Progression : GeneTest

MUVI MUVI1_1_9 :

6%

Online

Add Module Delete Module Move module Change CPU

User Interface Generic Interface Parameters

Electronics Setup
Physicist Setup

Global Setup
Initialization
Disable Channels
Pedestal
Discriminator Threshold
Gain and Shaper
Control
Test Generator

Confirm Setup

Channel Selection

Sector : 1 2 3 4

Mufee : X Y

Mate	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 6	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 7	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 8	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate SiLi	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Test Generator

Déclenchement ☐ Int ☐ Ctrl ☐ F

0 50 100%

10968 keV / Si
12186 keV / SiLi
48746 keV / CSi

Progression : GeneTest

MUVI MUVI1_1_9 :

44%

frequency 1 Shot

☒ With channels enabled
☒ NoTimeOut

Stop reinitialiserCallmust

Confirm Setup

Modified Wednesday, September 25, 2013 12:41:33 PM CAENET : Add Module < e655s.das >

LOAD THE VIGRU configuration (vigru_e6**MM2TCalib.xml) or adapt one to check the time spectra of MUST2 (both 2D and 1D)
→ specific for MUST2 with the following RAW spectra

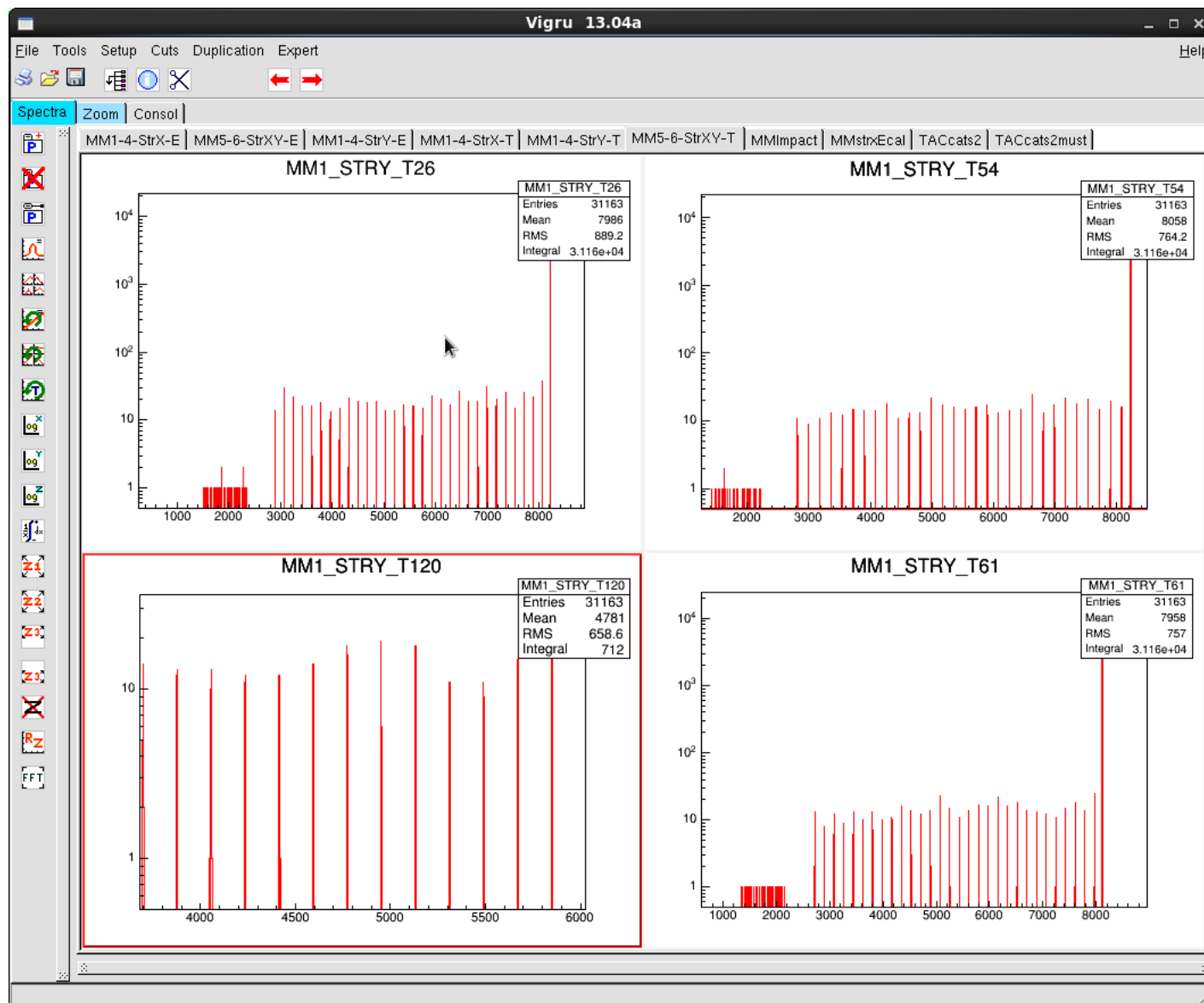
ONE PAGE FOR THE 2D XT: $i=1,\dots,4$ MMi_STRX_T_BRU

ONE PAGE FOR THE 2D YT: $i=1,\dots,4$ MMi_STRY_T_BRU

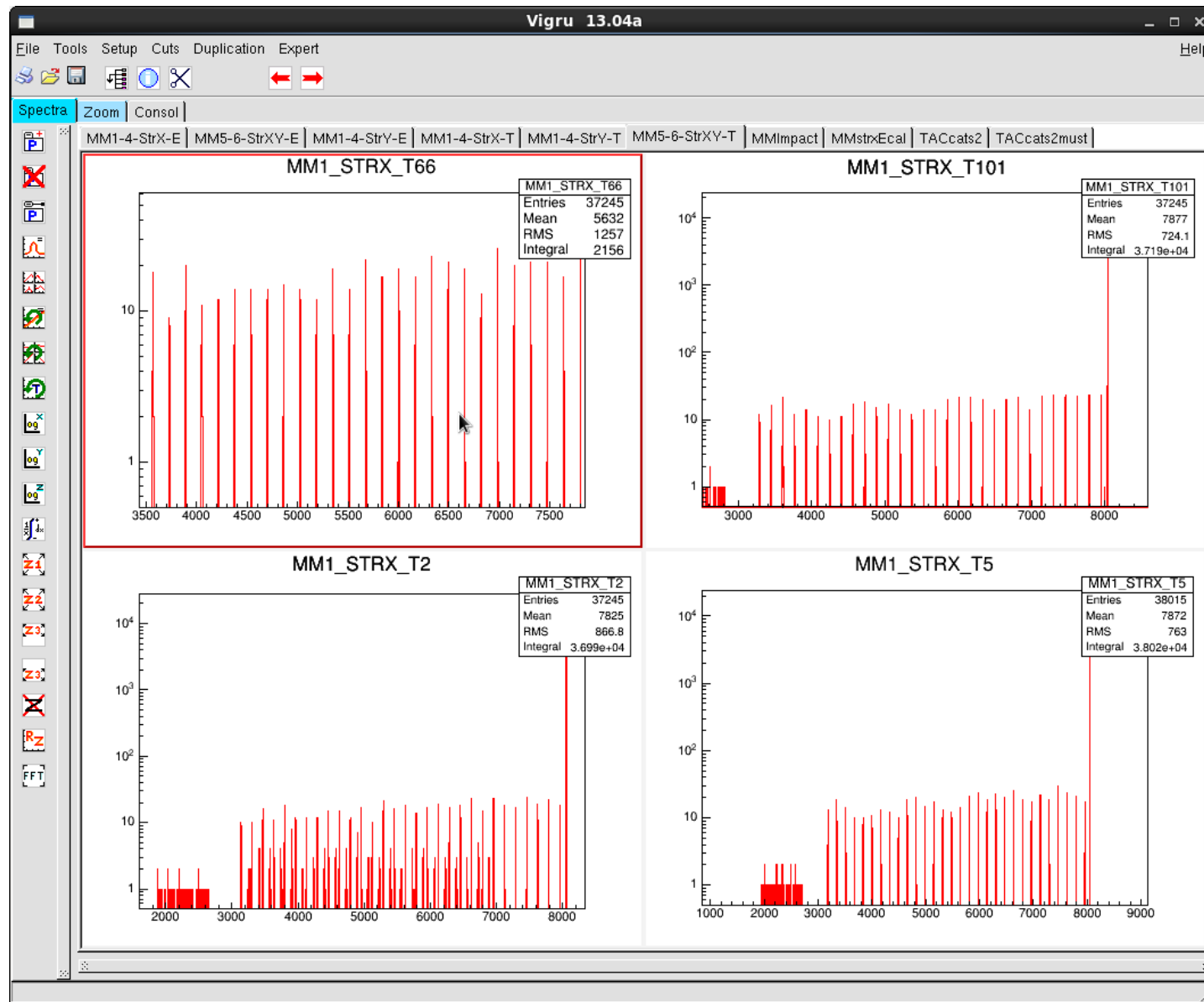
PAGES with selection 1D spectra on each telescope

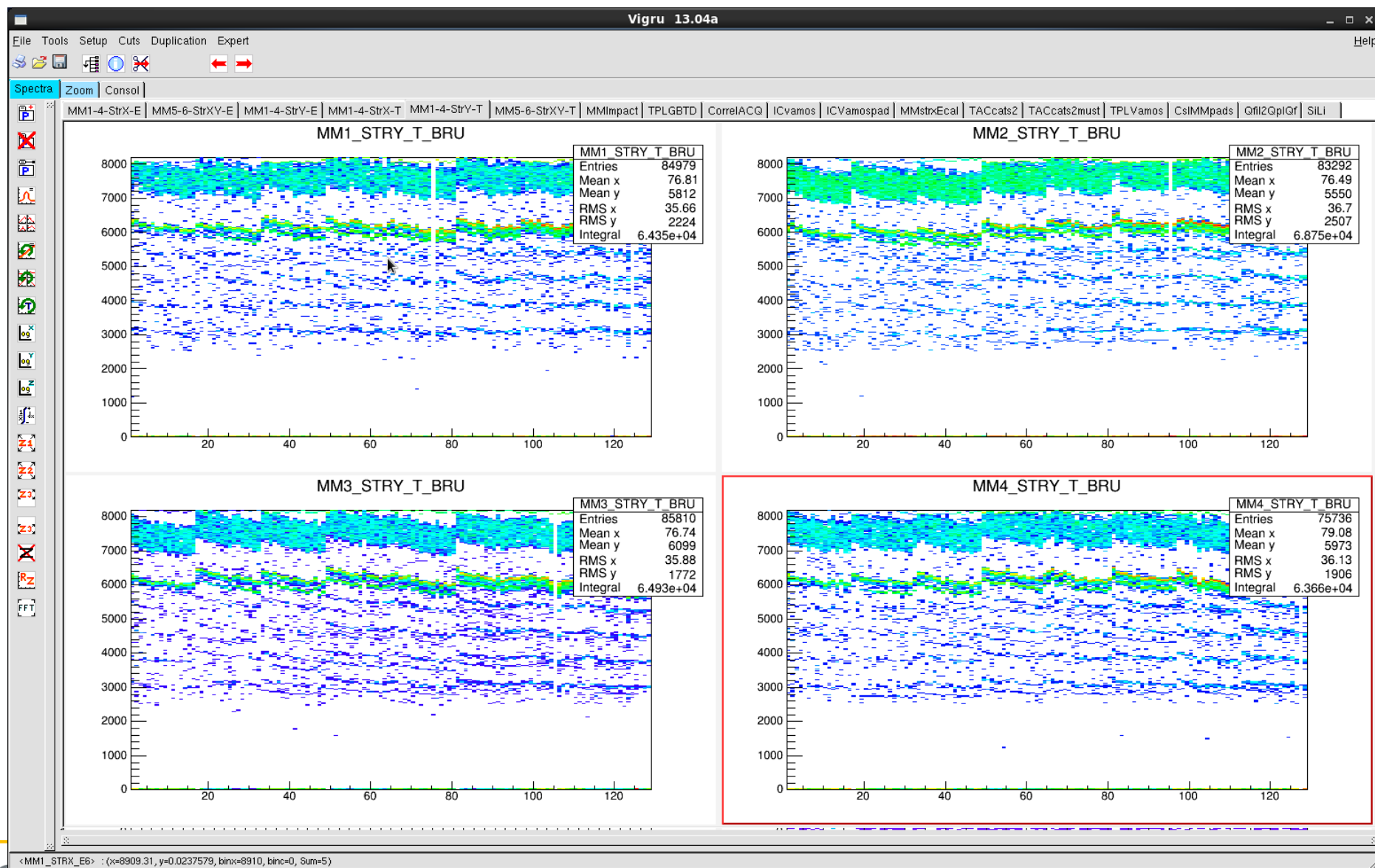
RAW/MM1/ MM1_STRX_Ti

SEE PLOTS obtained during TESTS E655s experiment in VAMOS (next pages)

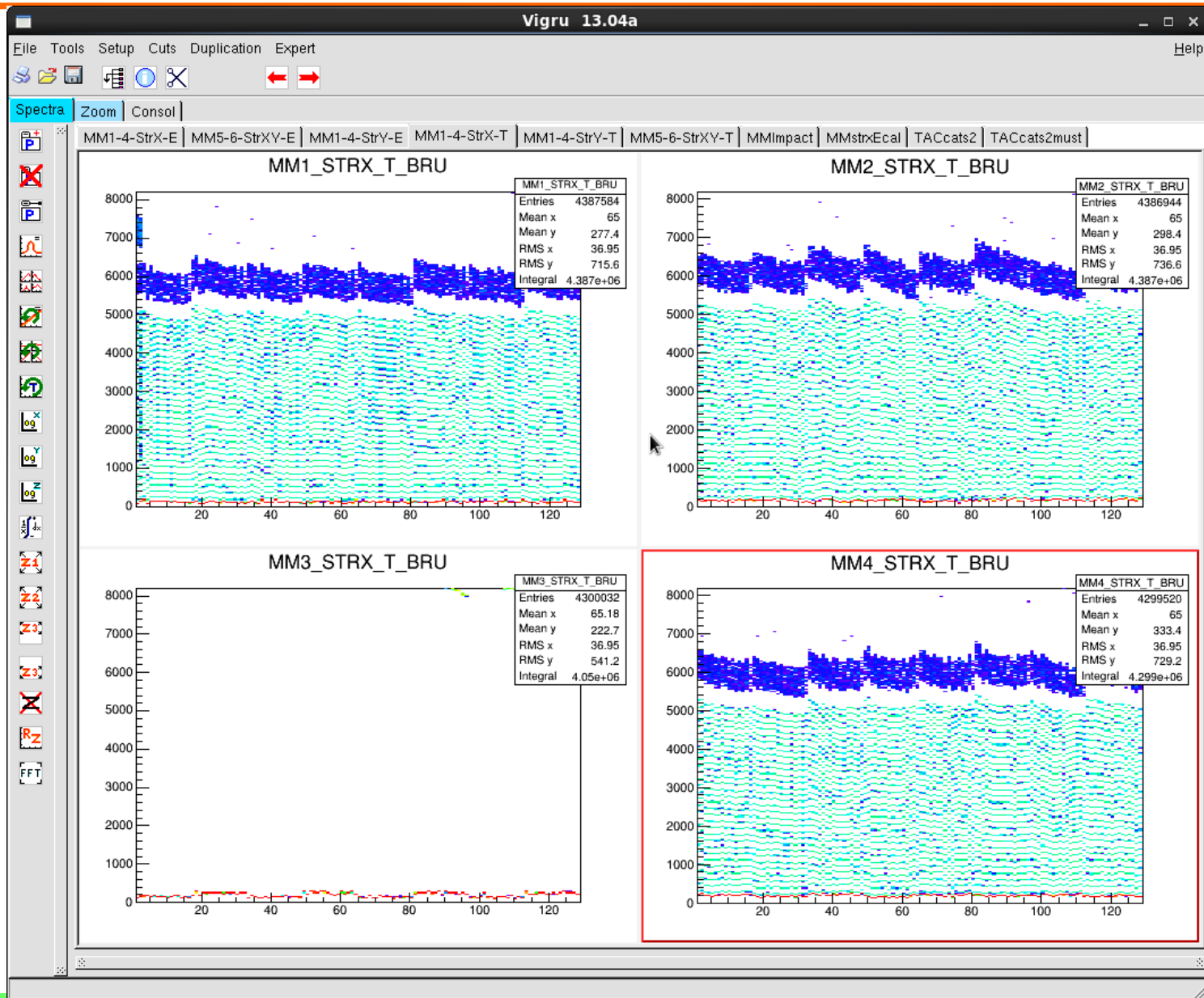


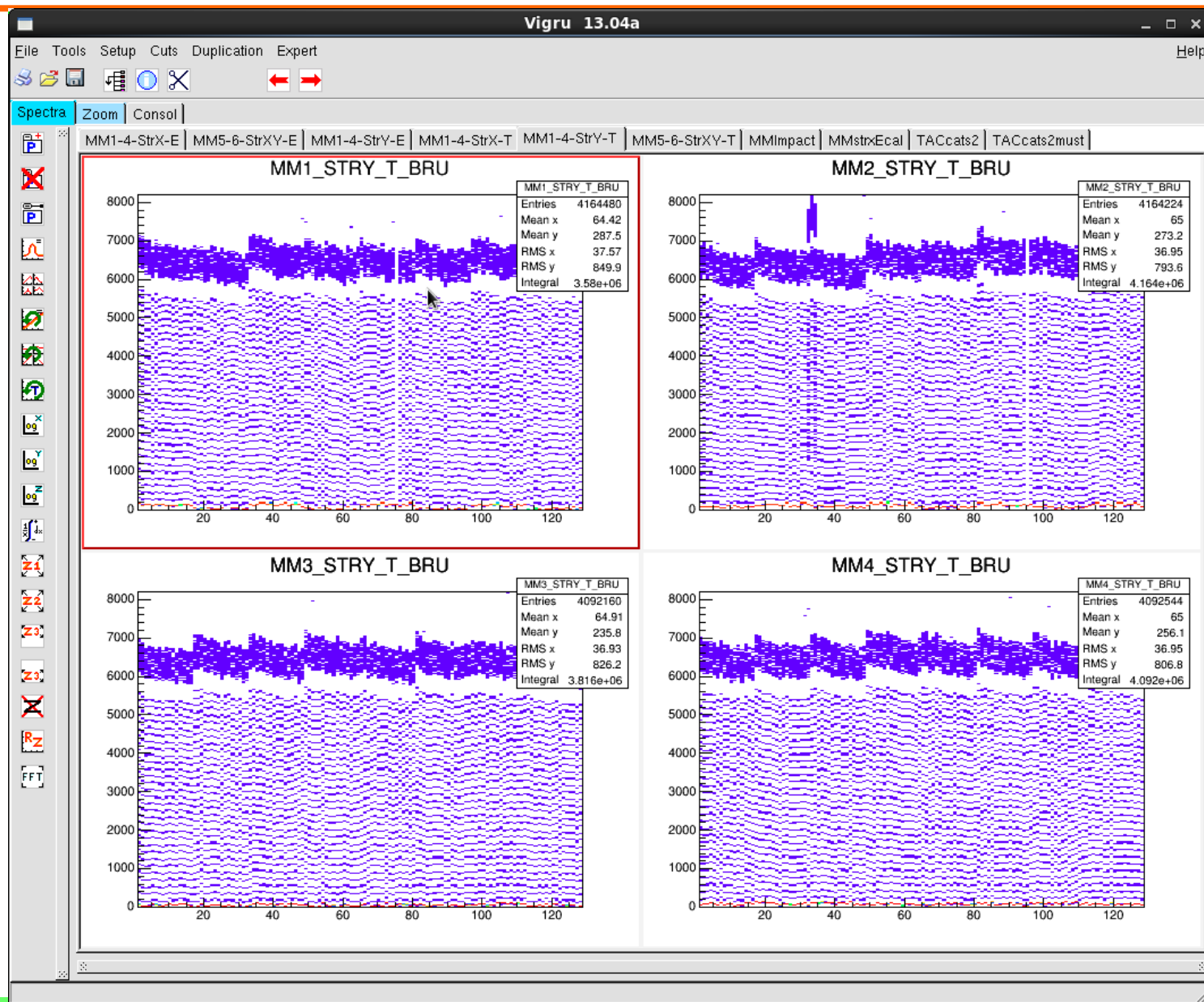
E655S DAQ –MUST2 TESTS





Time
Calibrator
Range 640 ns
Période 20ns





TROUBLES...

IN CASE OF TROUBLES, ASK The GIP to fix the following problems:

-- In case of Muvi problems communication :

Be sure that the GRU version is correctly set to the location of the Calimero program

In a Terminal, the execution of the Calimero program is checked (event rate) by typing:

Calimero.exe -q cali.C



-- In case of hardware problems (no trigger) ask the GIP to check with the SYN_tst and to check buffers

TROUBLES WITH CALIMERO

VXI Crate: 1 Cpu : ganix14

Add Module Delete Module Move module

INSPECTION GMT CENTRUM MUVI ADC U2M

[MUVI Slot(6), Type(MUVI)]

User Interface Generic Interface Parameters

- Global Setup
 - Initialization
 - Disable Channels
 - Pedestal
 - Discriminator Threshold
 - Gain and Shaper
 - Control
 - Test Generator

Mufee : ☐ X ☒ Y

Mate 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mate 4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
M	10	11	12	13	14	15	16									
M	10	11	12	13	14	15	16									
M	10	11	12	13	14	15	16									
M	10	11	12	13	14	15	16									
Mate SiLi	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

MUVI Interrupted Communication with Calimero ! x

X MUVI Interrupted Communication with Calimero !!!

OK

Test Generator

Déclenchement ☐ Interne ☒ Externe

☒ Ctrl ☐ Rampe

0 50 100%

4999 keV / Si

5555 keV / SiLi

22218 keV / CSi

Statistics : 1000

frequency 1 Shot

☒ With channels enabled

☒ NoTimeOut

Stop reinitialiserCalimust

CHECK THAT ALL CRATES ARE INVALID (0) DURING THE RUN SEQUENCE OF CALIMERO

Click on COMMAND to obtain this window in which the Menu Supervision gives:

The screenshot displays the Calimero software interface. On the left, a sidebar contains icons for 'Setup', 'Status', 'Scaler', and 'Command'. The 'Command' icon is circled in red. A red arrow points from the 'COMMAND' icon to the 'System command v14.03-03 [Language: English(en)]' window. Another red arrow points from the 'Supervision' window to the 'COMMAND' window. The 'Supervision' window shows a list of crates with their status and options. The 'COMMAND' window shows the 'Setup' tab with fields for 'Host', 'Exp Name', and 'Type'. The 'Status' tab shows the 'Init S_INIT' command. The 'Supervision' window shows the 'e628_ganlx12 : INIT' status for various crates.

Visible Name	Status	Status	Option
ACS	ALIVE	S_RUN	
Buffer: 0	buf/s: 0.0	Event: 0	evt/s: 0.0 error: 0
SBUF	ALIVE	S_INIT	O_TRANSMIT
Buffer: 785	buf/s: 0.75	Event: 0	evt/s: 0.0 error: 0
VXCAM	ALIVE	S_INIT	O_TRANSMIT
Buffer: 487	buf/s: 0.0	Event: 0	evt/s: 0.0 error: 68
ECHE	ALIVE	S_RUN	O_TRANSMIT
Buffer: 53	buf/s: 0.75	Event: 0	evt/s: 0.0 error: 0

System command v14.03-03 [Language: English(en)]

Setup

Host: ganlx12 Exp Name: e628 Type: GANIL

Command

☒ Transmit buffer

Init S_INIT

Command: Sending

Status

START STOP

Open Document /home/e628/ganacq_manip/e628/das-save/e628.cmd

Info : Server Caliml [calimero kill 0 rcode =555000]

Info : Kill

Info : Spectra Server is stopping

[e628@ganp166 ~/calimero]\$

Modified Tuesday, March 11, 20

