



AGATA Construction Database



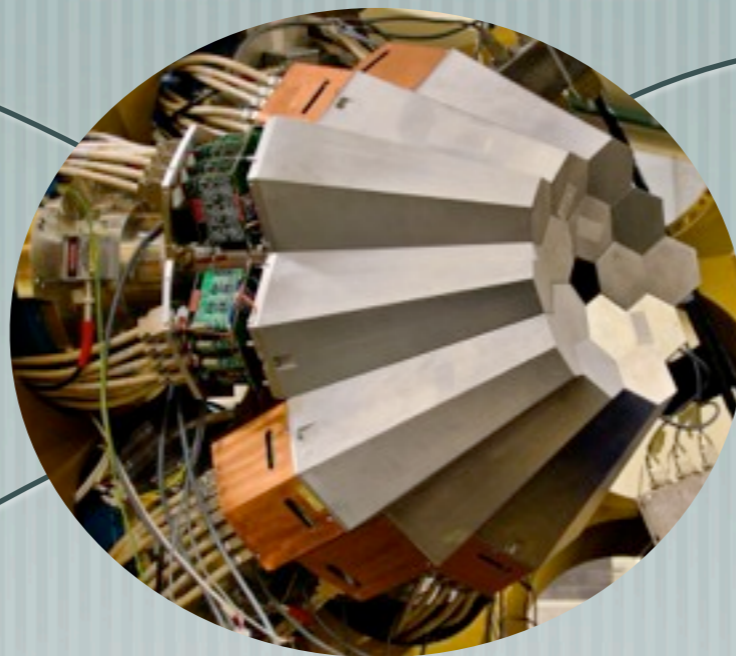
Status & perspectives

C. Aufranc, O. Stężowski, ADB contact persons, DSS team

AGATA Week, GANIL, March 2013

AGATA is a long term project

Complex



Moving



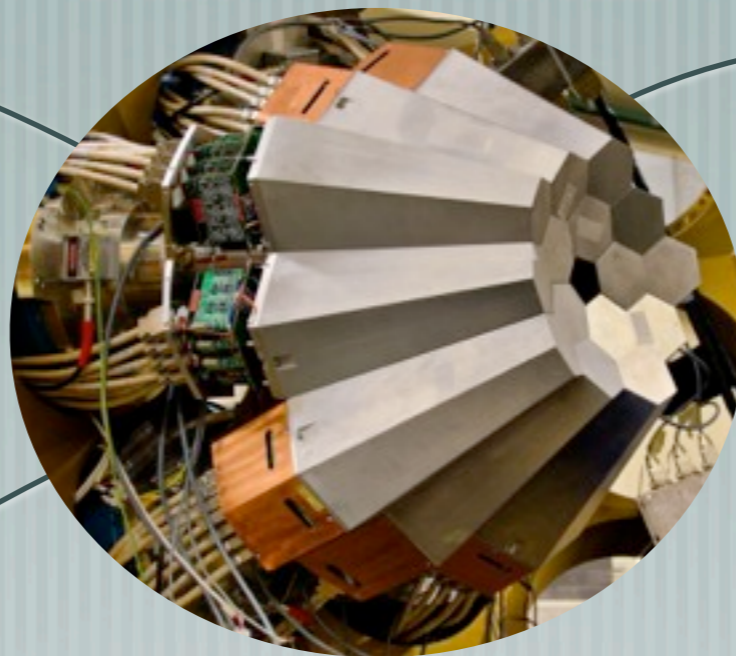
Growing



- centralize information
- keep history
 - ↳ Database !
 - ↳ 'constrain' for the collaboration

AGATA is a long term project

Complex



Moving



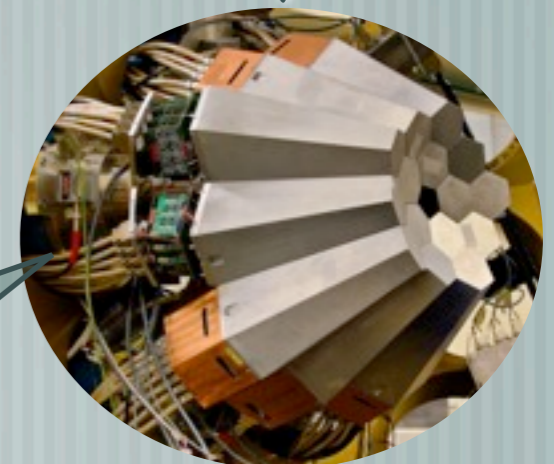
Growing



- centralize information
- keep history
 - ↳ Database !
 - ↳ 'constrain' for the collaboration opportunity !

History and Current Status

- Decision by the AMB to have a detector database 2010
 - ⇒ Definition of the structure of the DB
- Two campaigns LNL, autumn 2011
 - bar code sticker + ref. in DB (~50%)
 - used partially for transfer to GSI
- Two campaigns GSI
 - bar code sticker + ref. in DB (in July, ~90%)



Take care of the bar codes !
[some digitizers not visible any more]

History and Current Status

... since July, real detector has changed, **not the DB !!!!**

☞ re-re-start updating campaign (GSI, Lyon!, ...)

- Should be done frequently, as soon as possible, at the best place
Active Network to be built, we're all concerned ...

- Mail: *agatadb_AT_ipnl.in2p3.fr*

- Web site: *<http://agata.in2p3.fr/DB>*

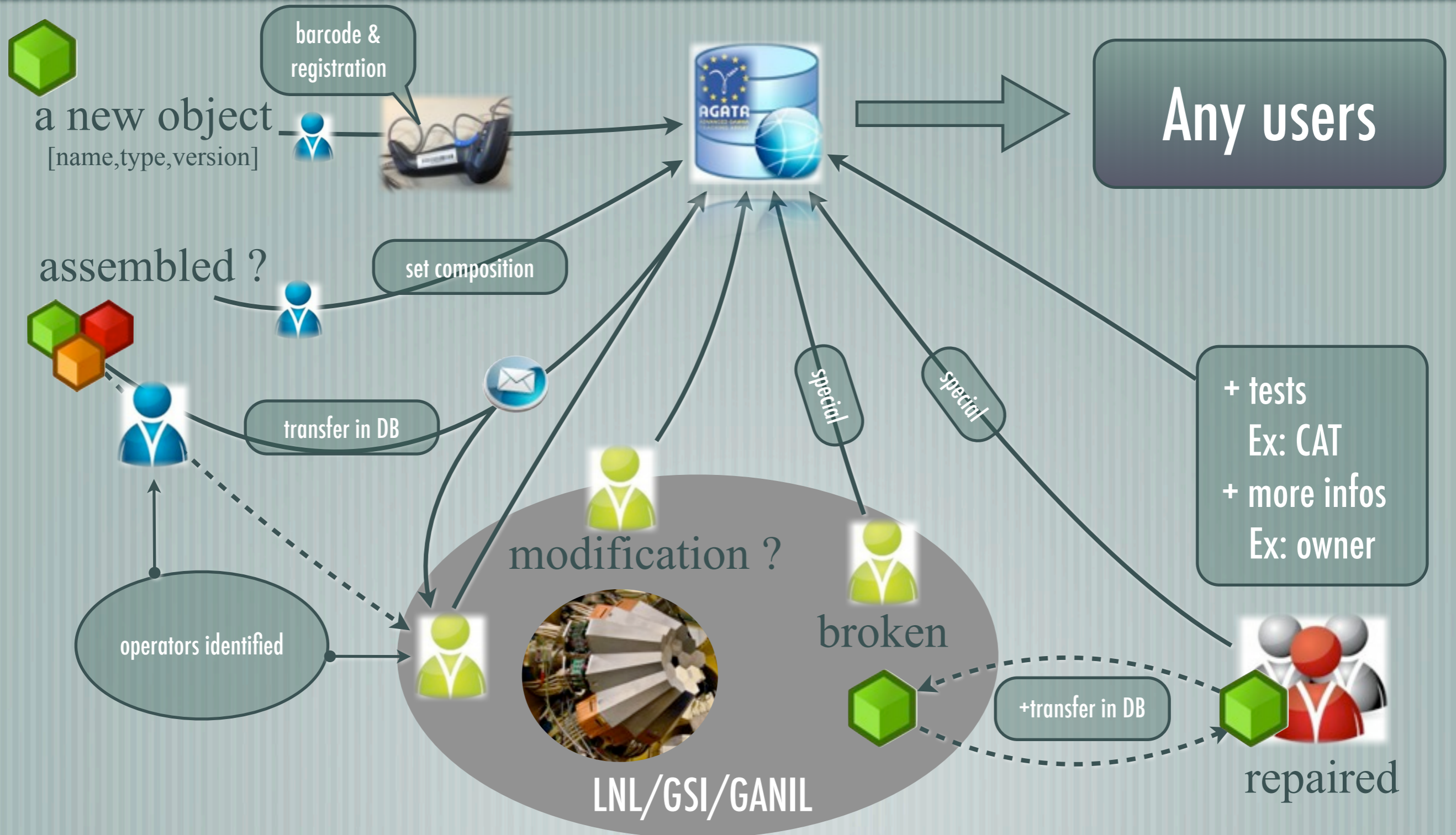
Video tutorials

- Go and see your DB contact person

B. Birkenbach (Koeln), Helen Boston (Liverpool), M. Karolak, A. Lotode (CEA Saclay), Frédéric Ameil (GSI)
J. Ropert, L. Menager, E Clement (GANIL) M.-H. Sigward (IPHC Strasbourg), R. Menegazzo (Padova) ...

- Dedicated video conference ~ 1/month. First 05/03/2013

What does it means for us ...



Some recent updates in ADB

Welcome to the AGATA DataBase Navigator

Connection Production Status Quality Control WorkStations Tables Windows Plug-ins Help

Quit Open Save Print Get Update Undo Scan Query Add EM Del EM See EM SQL

Tables Description Grabber Grabber Inventory

Object: CAPSULE Type: * Version: * or enter a barcode:

Selection criteria and showing properties

Center: * Last action: * Show: obj. count obj. IDs obj. history

Position: * Faulty: * obj. history

Known Problems

All Without known problem With known problem Concerned by: ..

Composite status: all Assembly status: NOT assembled

OBJECT_ID	OBJECT	TYPE_DESCRIPTION	VERSION	CENTER	POSITION	LASTACTION	FAULTY	SEQUENCE
DET_CAP_BLU_C002	CAPSULE	Blue (C)	1	COLOGNE	ready	OWNER	faulty	2013-02-28 17:11:00
DET_CAP_BLU_C004	CAPSULE	Blue (C)	1	COLOGNE	ready	OWNER	faulty	2013-02-28 17:14:03
DET_CAP_BLU_C007	CAPSULE	Blue (C)	1	COLOGNE	ready	OWNER	valid	2013-02-28 17:17:28
DET_CAP_GRE_B005	CAPSULE	Green (B)	1	COLOGNE	faulty	FREEACTION	faulty	2013-02-28 16:53:42
DET_CAP_GRE_B006	CAPSULE	Green (B)	1	COLOGNE	ready	OWNER	valid	2013-02-28 17:19:19
DET_CAP_GRE_B007	CAPSULE	Green (B)	1	COLOGNE	ready	OWNER	valid	2013-02-28 17:25:43
DET_CAP_GRE_B009	CAPSULE	Green (B)	1	COLOGNE	ready	OWNER	faulty	2013-02-28 17:20:10
DET_CAP_GRE_B013	CAPSULE	Green (B)	1	COLOGNE	ready	OWNER	valid	2013-02-28 17:22:03
DET_CAP_RED_A005	CAPSULE	Red (A)	1	COLOGNE	ready	OWNER	faulty	2013-02-28 17:22:56
DET_CAP_RED_A006	CAPSULE	Red (A)	1	COLOGNE	ready	De-Assembly	valid	2012-04-17 14:39:14
DET_CAP_RED_A007	CAPSULE	Red (A)	1	COLOGNE	ready	OWNER	valid	2013-02-28 17:28:09
DET_CAP_RED_A009	CAPSULE	Red (A)	1	COLOGNE	ready	OWNER	valid	2013-02-28 17:29:28

ready (selected 2.29% of objects)

connected to production DB

detector status

Some recent updates in ADB

Welcome to the AGATA DataBase Navigator

Connection Production Status Quality Control WorkStations Tables Windows Plug-ins Help

Quit Open Save Print Get Update Undo Scan Query Add BM Del BM See BM SQL

Tables Description Grabber Grabber Inventory

Object: CAPSULE Type: * Version: * Object's place: * or enter a barcode :

5 actions(s) Delete Last Selection Add A Selection

Action: OWNERBASE Act. Vers.: 1 Output: tcomment Status: reference

Action: OWNERBASE Act. Vers.: 1 Output: hyperlink Status: reference

OBJECT_ID	REFERENCE	OWNER	TCOMMENT	HYPERLINK
DET_CAP_BLU_C001	C001_73899	PADOVA	Accepted	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_C001_SN73899.pdf
DET_CAP_BLU_C002	C002_73951	FRANCE	leakage current reported at LNL in segment E6 (AGATA NOTATION?!); leakage current in C6; sent back to Canb...	<empty>
DET_CAP_BLU_C003	C003_74013	LIVERPOOL	Accepted; Only reencapsulation by Canberra, first detector with possible solution against segment microphony. (...)	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_C003_SN74013.pdf
DET_CAP_BLU_C004	C004_74036	ANKARA	leakage current in B4; sent back to Canberra on 16/11/2012	<empty>
DET_CAP_BLU_C005	C005_74033	SWEDEN	Accepted	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_C005_SN74033.pdf
DET_CAP_BLU_C006	C006_74115	PADOVA	<empty>	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_C006_SN74115_01_1
DET_CAP_BLU_C007	C007_74165	GERMANY	Accepted; Detector reported to be accepted at IKP	<empty>
DET_CAP_BLU_C008	C008_74211	UK LIVERPOOL	CAT finished at Liverpool	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_C008_SN74211.pdf
DET_CAP_BLU_C009	C009_74220	FRANCE SACLAY	Accepted; Final accepted at IKP (June 2012)	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_C009_SN74220.pdf
DET_CAP_BLU_C010	C010_74222	CANBERRA	Accepted	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_C010_SN74222_01_0
DET_CAP_GRE_B001	B001_74034	PADOVA	Accepted; Returned from Canberra where the indium kit was removed	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_B001_SN74034_03_1
DET_CAP_GRE_B002	B002_73979	FRANCE	Accepted	<empty>
DET_CAP_GRE_B003	B003_74026	LIVERPOOL	Accepted; OK for gluing (was in specs before gluing) - no official report sent to Canberra (was paid)	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_B003_SN74026.pdf
DET_CAP_GRE_B004	B004_74010	ANKARA	Accepted; CAT IKP: accepted, but: crystal size reduced due to rework, and crystal not depleted at 5000V	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_B004_SN74010.pdf
DET_CAP_GRE_B005	B005_74065	SWEDEN	Accepted	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_B005_SN74065.pdf
DET_CAP_GRE_B006	B006_74076	PADOVA	Returned from canberra on 11/01/2013 to liverpool.	<empty>
DET_CAP_GRE_B007	B007_74208	GERMANY	Accepted; delivered 29/11/2012; CAT reported as finished at IKP	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Rejected/report_B007_SN74208.pdf
DET_CAP_GRE_B008	B008_74212	GERMANY IKP	Accepted; CAT@IKP	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_B008_SN74212.pdf
DET_CAP_GRE_B009	B009_74207	LIVERPOOL	CAT Liverpool OK - encapsulation shows damage after fall of detector; leakage current observed after annealing...	<empty>
DET_CAP_GRE_B010	B010_74202	ITALY INFN	Accepted; CAT@IKP	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_B010_SN74202.pdf
DET_CAP_GRE_B011	B011_74203	ITALY INFN	Accepted; B011: CAT finished. Core and 1 seg slightly out of specs. B011: report corrected - all segs within spec	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_B011_SN74203.pdf
DET_CAP_GRE_B012	B012_74217	FRANCE IPHC	Accepted; CAT@Saclay; B012 brought from CEA to IKP after CAT	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_B012_SN74217.pdf
DET_CAP_GRE_B013	B013_74265	FRANCE SACLAY	delivered 04/02/2013 from Canberra to Saclay for CAT	<empty>
DET_CAP_RED_A001	A001_SN73952	FRANCE	Accepted; FRANCE=DSM (Saclay), IN2P3 and GANIL	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_A001_SN73952.pdf
DET_CAP_RED_A002	A002_SN74030	ITALY	Accepted; remark: ownership here was exchanged, to have a symmetric crystal funded completely by Germany....	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_A002_SN74030.pdf
DET_CAP_RED_A003	A003_74009	LIVERPOOL	Accepted (2 segments out of specifications) most likely candidate for annealing test	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_A003_SN74009.pdf
DET_CAP_RED_A004	A004_74095	ANKARA	Accepted	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_A004_SN74095_08_0
DET_CAP_RED_A005	A005_73949	SWEDEN	IKP reports increased leakage current after further annealing, detector draws severe currents above 500V. Sent...	<empty>
DET_CAP_RED_A006	A006_74096	PADOVA	Accepted	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_A006_SN74096.pdf
DET_CAP_RED_A007	A007_74216	ITALY INFN	Accepted: CAT finished at Liverpool	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_A007_SN74216.pdf
DET_CAP_RED_A008	A008_74108	GERMANY	Accepted; remark A007, rejected detector seems to be revived in A008; CAT Liverpool ok	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_A008_SN74108.pdf
DET_CAP_RED_A009	A009_74209	LIVERPOOL	Delivered to Liverpool for CAT (12/09/12). Accepted at Liverpool, sent to IKP	<empty>

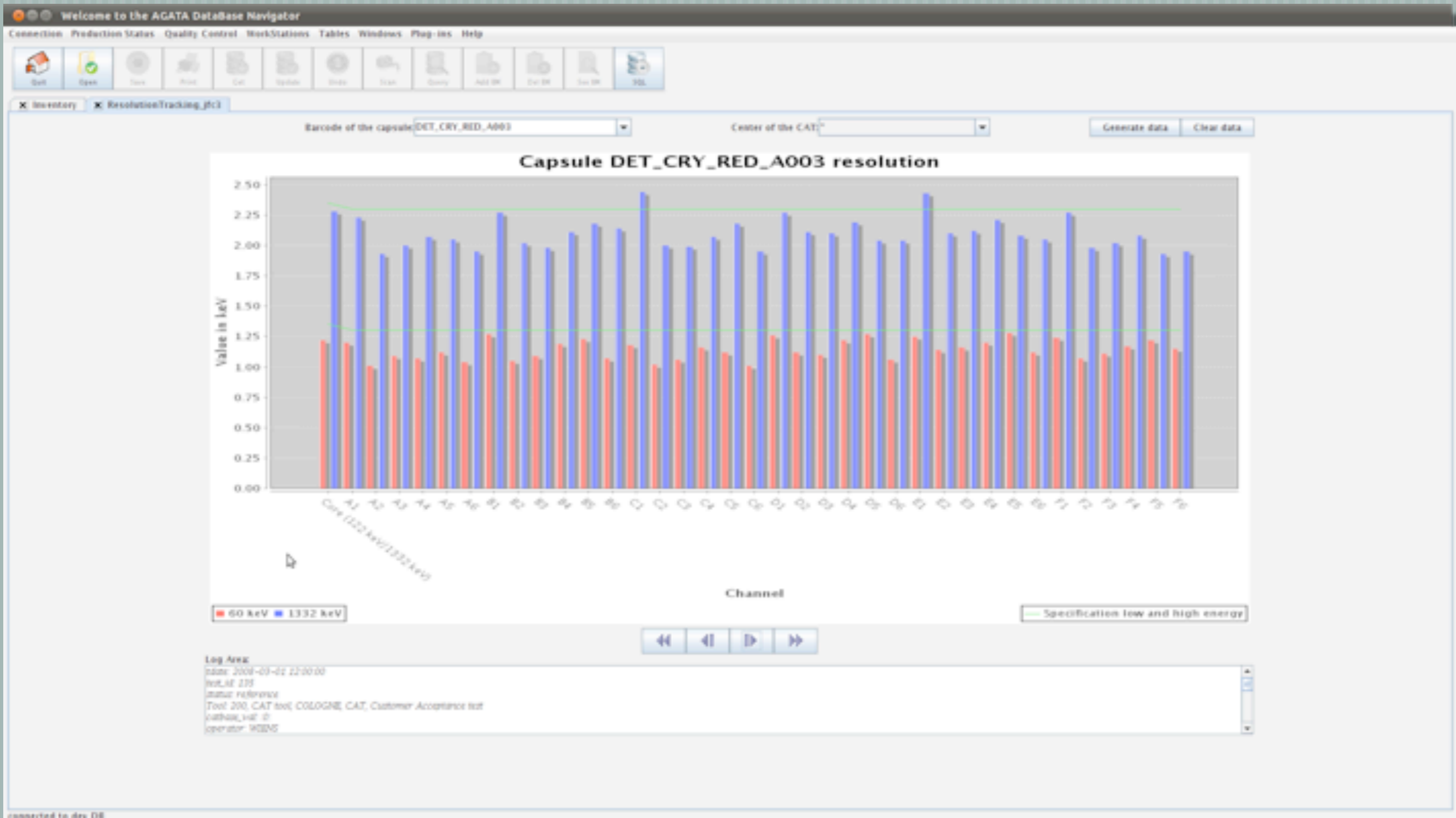
detector status

Some recent developments

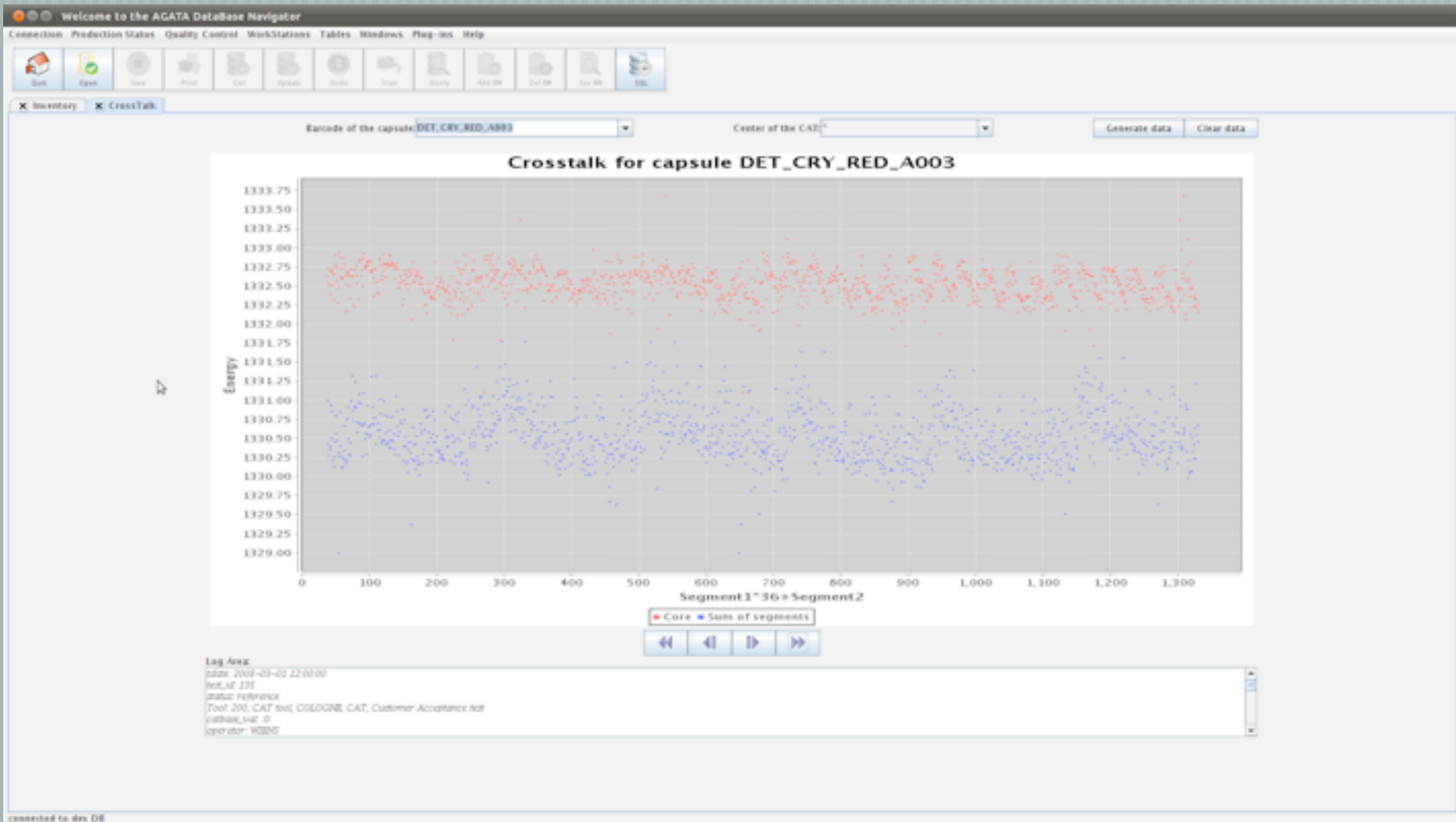
- We are trying to improve the DB interface (BigBrowser):
 - + on click, photos of typical objects
 - + faulty objects highlighted in red color
- Specific GUI are developed:
 - + CAT*
 - + navigation through history of assemblies

* not new, already shown @ previous AGATA Week

CAT test in ADB



CAT test in ADB



To navigate through assembly ...

The screenshot displays the AGATA DataBase Navigator interface. The main window is titled "AssemblyHistoryViewer7" and shows the composition of assembly object ATC01 at two different reference dates.

Reference date chosen: 2013-03-06 11:20:27

- ATC01 : TCLUSTER Asymmetric Triple Cluster v. 1
 - DET_CAP_BLU_C003 : CAPSULE Blue (C) v. 1 =>Assembled at 2012-07-02 17:28:28
 - DET_CAP_GRE_B001 : CAPSULE Green (B) v. 1 =>Assembled at 2012-07-02 17:28:28
 - DET_CAP_RED_A008 : CAPSULE Red (A) v. 1 =>Assembled at 2012-07-02 17:28:28
 - DET_CRYO_AT_001 : CRYOSTAT Asymmetric Triple v. 1 =>Assembled at 2011-11-30 18:24:16
 - DET_PABO_001 : PATCHBOX Low Voltage v. 1 =>Assembled at 2011-12-01 18:05:28
 - DET_PA_ATC01 : PREAMPLSTC Triple Cluster : position 1-3 for Core, 4-39 for Segment (A->B->C) v. 1 =>Assembled at 2011-12-01 18:05:28

Date (YYYY-MM-DD HH24:MLSS): 2011-12-01 18:05:28

- ATC01 : TCLUSTER Asymmetric Triple Cluster v. 1
 - DET_CAP_BLU_C003 : CAPSULE Blue (C) v. 1 =>Assembled at 2011-12-01 18:05:28
 - DET_CAP_GRE_B001 : CAPSULE Green (B) v. 1 =>Assembled at 2011-12-01 18:05:28
 - DET_CAP_RED_A006 : CAPSULE Red (A) v. 1 =>Assembled at 2011-12-01 18:05:28
 - DET_CRYO_AT_001 : CRYOSTAT Asymmetric Triple v. 1 =>Assembled at 2011-11-30 18:24:16
 - DET_ECP_AT_001 : ENDCAP Asymmetric Triple v. 1 =>Assembled at 2011-12-01 18:05:28
 - DET_PABO_001 : PATCHBOX Low Voltage v. 1 =>Assembled at 2011-12-01 18:05:28
 - DET_PA_ATC01 : PREAMPLSTC Triple Cluster : position 1-3 for Core, 4-39 for Segment (A->B->C) v. 1 =>Assembled at 2011-12-01 18:05:28

The interface includes a menu bar (Connection, Production Status, Quality Control, WorkStations, Tables, Windows, Plug-ins, Help), a toolbar with icons for Quit, Open, Save, Print, Get, Update, Undo, Scan, Query, Add BM, Del BM, Sex BM, and SQL, and a status bar at the bottom indicating "connected to production DB".

Conclusions & Perspectives

- A Detector Database exists !
 - Filled by campaigns ... not the best way
 - Active network to be set up ... the only way ...
- Could be a great tool for the community
 - history, traceability, ...
- It could grow:
 - more objects (new ones, cables, connections ...)
 - more informations (ownership of digitizers, etc ...)
 - connection with DAQ
- Works on the Graphical User Interface foreseen



@ the source !