

Status and overview of the AGATA capsules

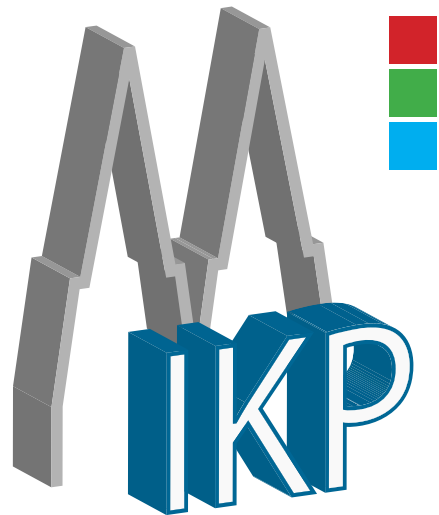
15th AGATA week GANIL 2014



B. Birkenbach
IKP Köln

AGATA working group Detector Module

- Customer Acceptance Tests (CAT)
- Cryostat (Development and Repair)
- Scanning and Characterisation
 - R&D on new techniques and applications

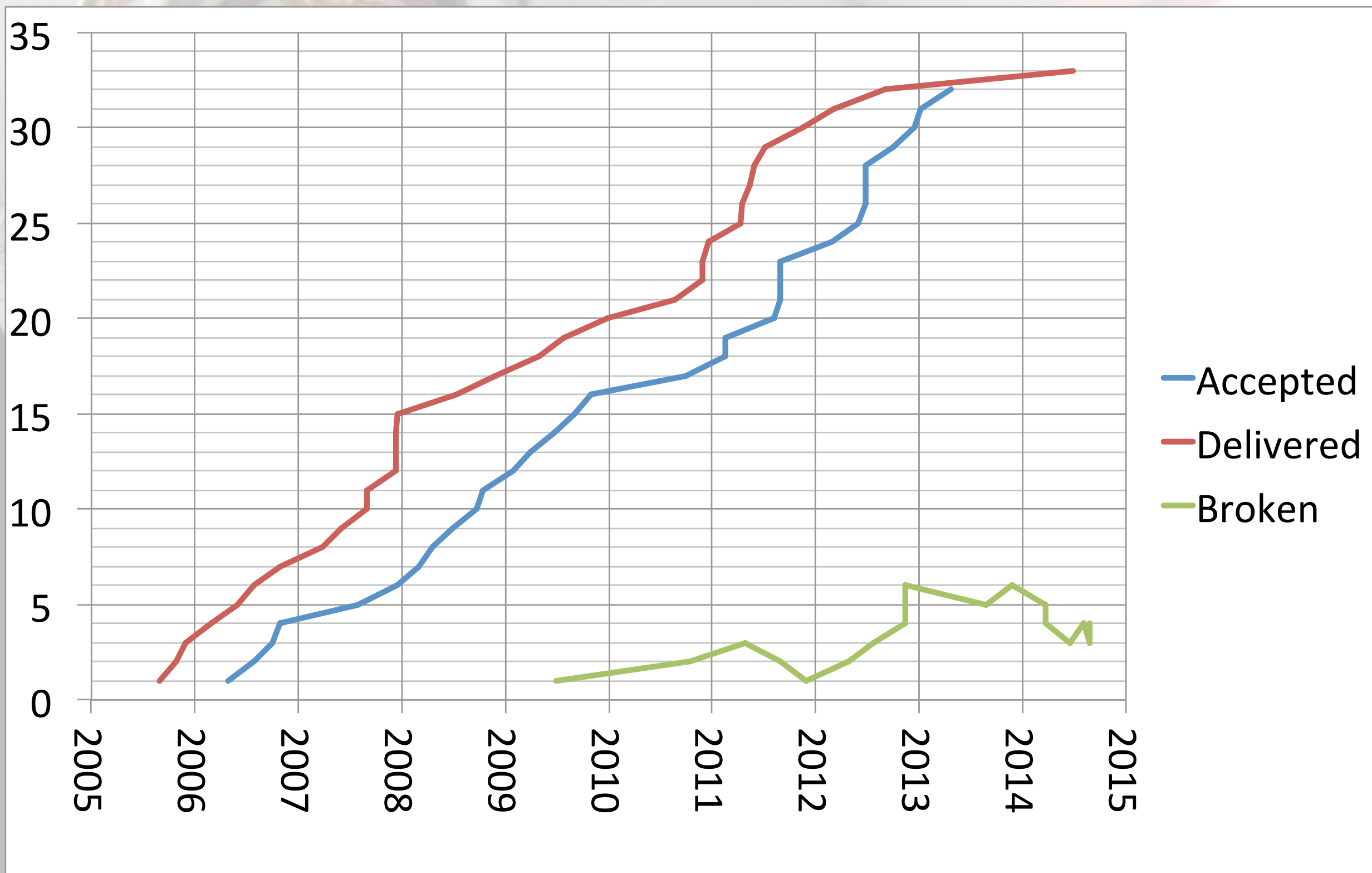


Type Delivered Problems Pending Canberra

A	9	1	0	1
B	13	1	0	1
C	11	2	1	2
SUM	33	4	1	4

Status Capsules

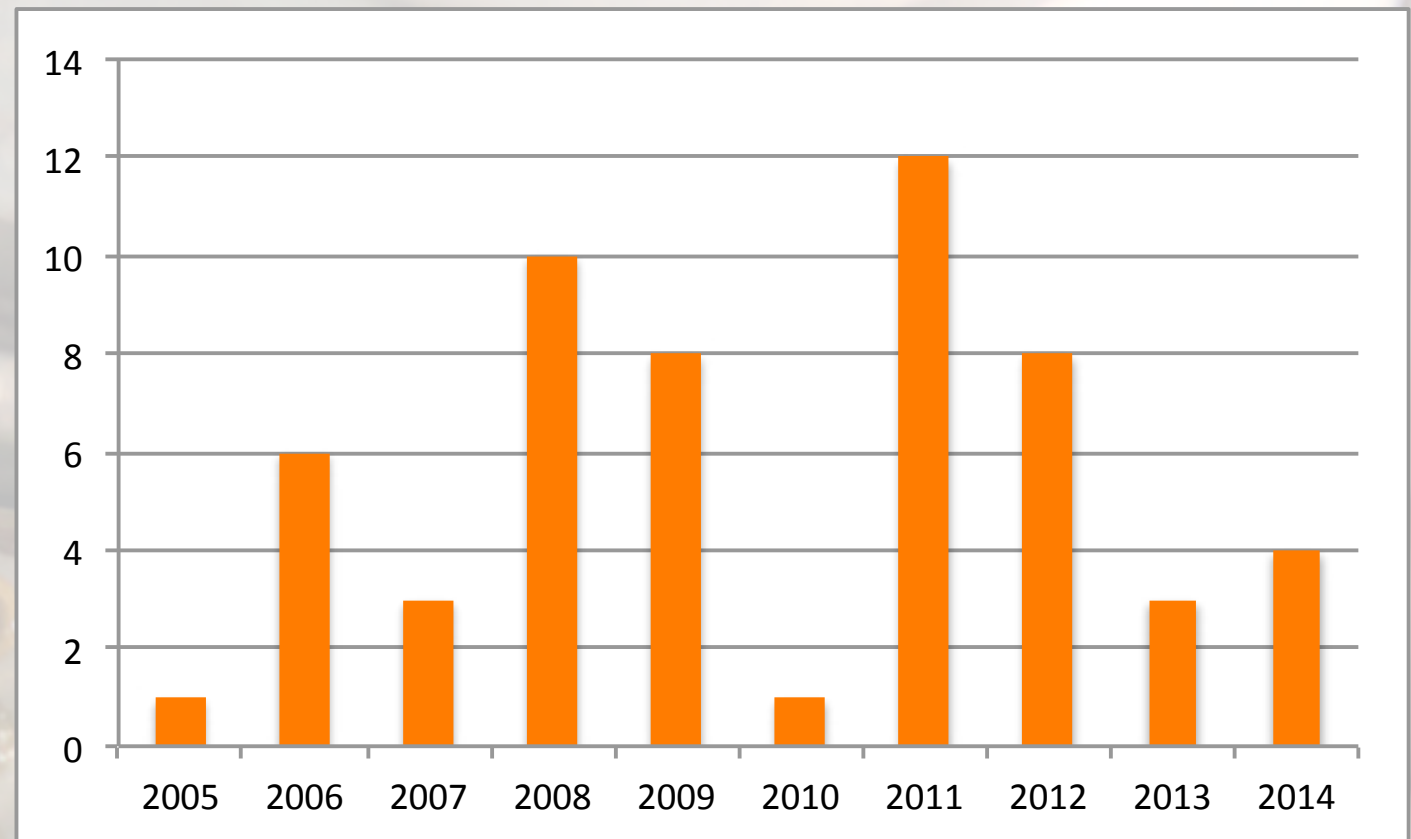
At this moment
28 capsules
 are available to the community



Status Customer Acceptance Tests

Year Number of Tests

2005	1
2006	6
2007	3
2008	10
2009	8
2010	1
2011	12
2012	8
2013	3
2014	4
SUM	56



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Capsule Activity

ATC	A	B	C	Location
1	008	001	003	GANIL
2	003	003	005	IKP
3	002	010	001	GANIL
4	007	007	007	GANIL
5	005	002	009	GANIL
6	001	004	004	IKP
7	006	013	006	IKP
8	009	005	008	CTT

$$8 \times 3 = 24$$

out of 28 available capsules
are mounted in 8 ATCs

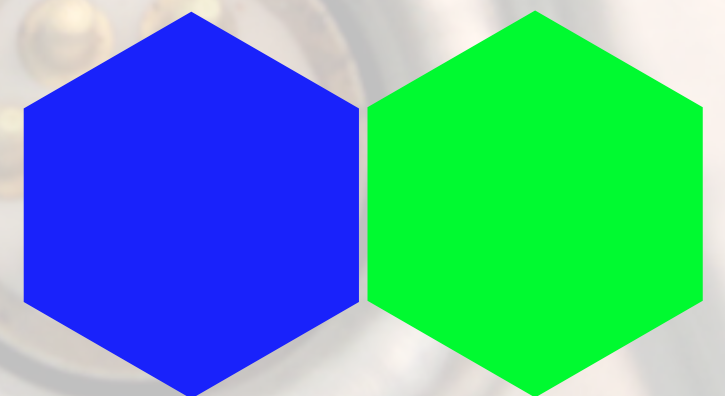


Capsule Activity

ADC	B	C	Location
1	8	-	IKP
2	12	-	IKP
3	11	-	IKP
5	-	-	IKP

But ATC 9, 10 and 11 are already in the queue of CTT and will be prepared soon.

$24 + 3 = 27$ out of 28

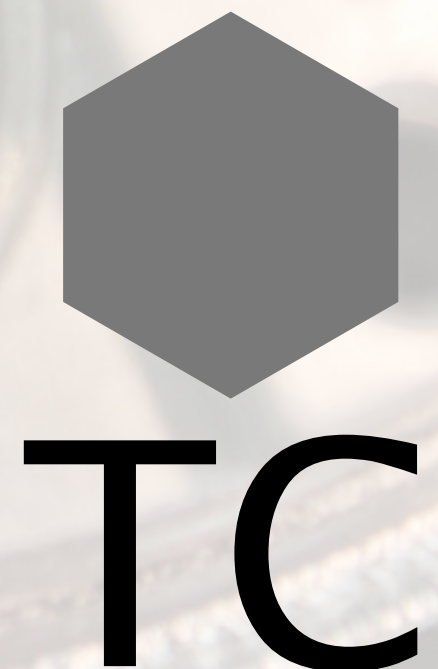


ADC

Capsule Activity

TC	Capsule	Location	Activity
3	C010	Liverpool	CAT
4	C011?	Liverpool	CAT
7	S001	Padova	Development
8	B006	Strasbourg	Scanning
5	S002	Cologne	Reference

$$24 + 3 + 1 = 28$$



Capsules that need repair

Detector	Location	Status	Problem	Waranty
S003	Canberra	Waiting for repair order	Leakage current	No
A004	Canberra	Waiting for cost estimate	Leakage current	No
B009	Canberra	Waiting for cost estimate	Leakage current	No
C002	Canberra	Under Repair	Leakage current	Yes
C013	Liverpool	Transfer	Leakage current	Yes (not accepted)

**Up to now 6 capsules were repaired by Canberra.
In average, they were away for 390 days.
(in days: 191, 204, 378, 378, 490, 706)**

Future Capsules

Detector	Status	Date
C011	New	2nd half 2014
C012	New	2nd half 2014
A010	New	1st half 2015
C014	New	1st half 2015
A011	New	2nd half 2015

Latest status, manuals and reports of all capsules are available online:

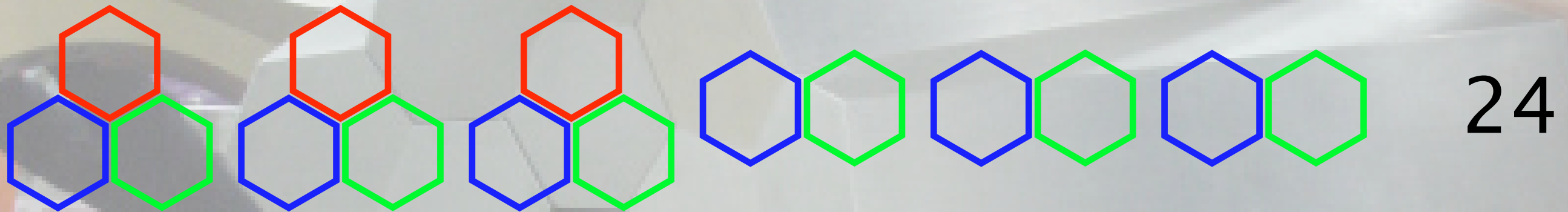
<http://www.ikp.uni-koeln.de/agata>

Password is needed

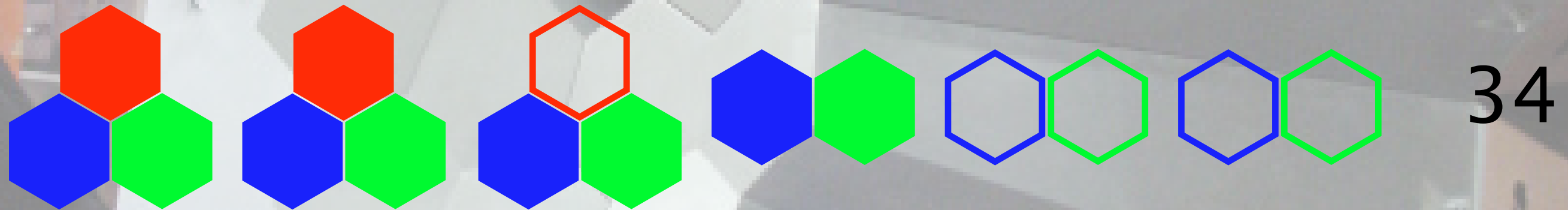
Scenarios until the end of 2015

8 ATCs with detectors

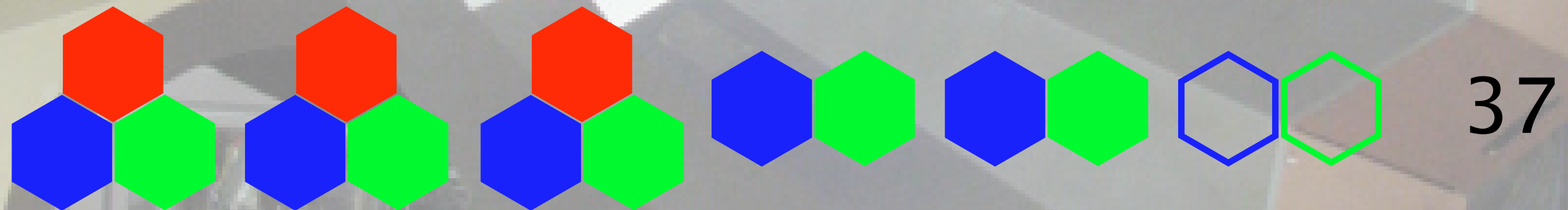
3 ATCs (CTT) and 3 ADCs



All detectors will be accepted



All detectors will be repaired



Thanks to the teams of



University of Liverpool, Great Britain



CEA Saclay, France



IKP Cologne, Germany

Status and overview of the AGATA cryostats

Name	Location	Status
ATC1	GANIL	Mounted
ATC2	Cologne	Feedthrough
ATC3	GANIL	Testing
ATC4	GANIL	Mounted
ATC5	GANIL	Mounted
ATC6	Cologne	Last Tests
ATC7	Cologne	CTT
ATC8	Cologne	CTT
ADC1	Cologne	waiting (no crystals)
ADC2	Cologne	waiting (no crystals)
ADC3	Cologne	waiting (no crystals)
ADC5	Cologne	waiting (no crystals)
TestC1	Cologne	Research
TestC2	Saclay	CAT
TestC3	Liverpool	CAT
TestC4	Liverpool	CAT
TestC5	Cologne	CAT
TestC6	Cologne	Broken
TestC7	Legnaro	FEE Test
TestC8	Strasbourg	Scanning