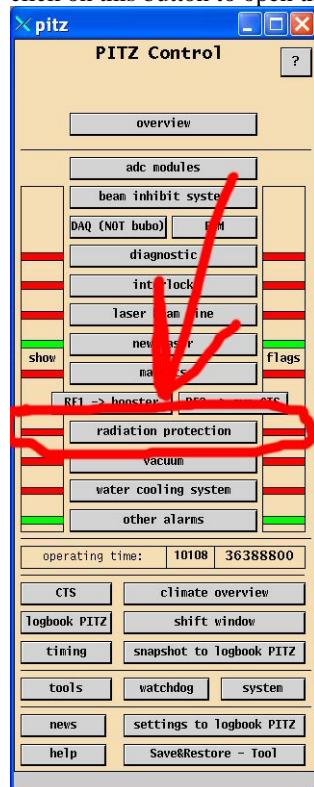
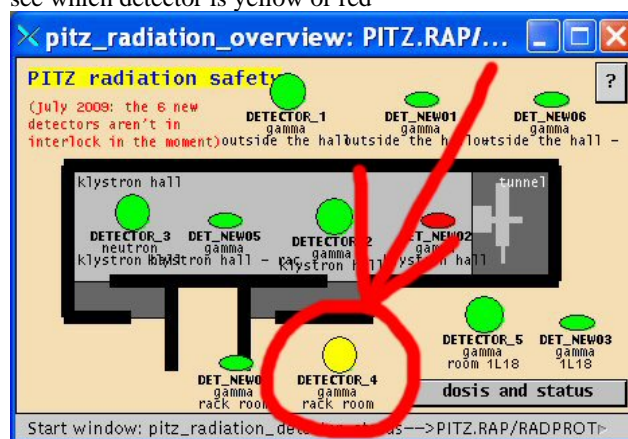


## PITZ – restart one detector of the radiation protection system

1. **open the radiation protection window**
  - a. if the two flags on both sides of the button [radiation protection] are red:
  - b. click on this button to open the radiation protection window



2. **locate the wrong detector**
  - a. see which detector is yellow or red



- b. here the detector 4 is out of order (yellow)
- c. click on button [dosis and status]

- d. the detector 4 has “chamber loss” and “shorting plug of”

old detector	location	kind	dosis (mikroSv/h)	general	power on	write enabled	power ok	power chamber loss	alarm	config ok	shorting plug
DETECTOR_1	outside the hall	gamma	0.903								
DETECTOR_2	klystron hall	gamma	0.686								
DETECTOR_3	klystron hall	gamma	1.693								
DETECTOR_4	rack room	gamma	1.209								
DETECTOR_5	room 1L18	gamma	0.074								

system error: No error

new detector	location	kind	dosis (mikroSv/h)	error no	error MYSQL	error hardware	alarm (radiation to high or to low)
DET_NEW01	outside the hall -	gamma	0.062				
DET_NEW02	klystron hall	gamma	0.070				
DET_NEW03	1L18	gamma	0.062				
DET_NEW04	rack room	gamma	0.061				
DET_NEW05	klystron hall - rac	gamma	0.061				
DET_NEW06	outside the hall -	gamma	0.060				

(Febr. 2009: the 4 new detectors aren't in the interlock up to now)

### 3. go to expert window

- a. click on button [expert]

detector	type	location	dose per puls	alarm counts per second
DETECTOR_1	gamma	outside the hall	0.0431	500.0
DETECTOR_2	gamma	klystron hall	0.0409	500.0
DETECTOR_3	neutron	klystron hall	0.0587	500.0
DETECTOR_4	gamma	rack room	0.0524	500.0
DETECTOR_5	gamma	room 1L18	0.0225	500.0

all detectors

get ini data from database

request data from detectors

reset alarm in detectors

data acquisition program: login state of rap-server (doocs): master

host address: 141.34.30.123

LOGIN into CAN2 (take master permission)

LOGOUT from CAN2 (take client permission)

mysql database for initializing and measurement data:

host address: 141.34.30.123

detector data from database: (via netscape, takes some time!)

radiation values and detector status

technical data

location

last 500 error messages

test database replication

system error: No error

start special java gui

- b. click on button [reset alarm in detectors]
- c. close this window

- d. the detector 4 has now “shorting plug of” only

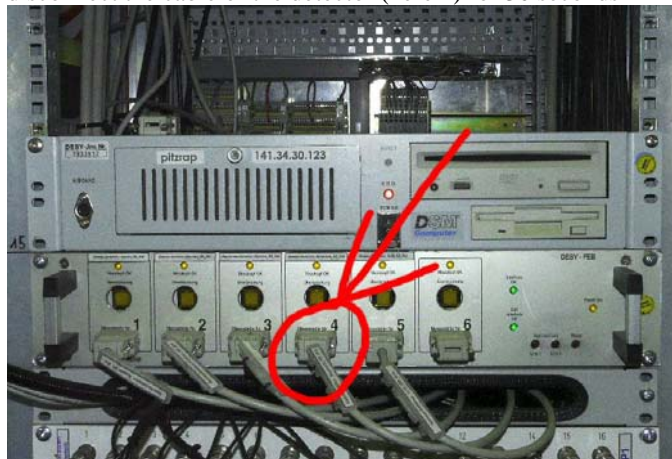
old detector	location	kind	dosis (µSv/h)	general	power	write	power	chamber	alarm	config	shorting plug	off
DETECTOR_1	outside the hall	gamma	0.903									
DETECTOR_2	klystron hall	gamma	0.686									
DETECTOR_3	klystron hall	neutron	1.693									
DETECTOR_4	rack room	gamma	1.209									
DETECTOR_5	gamma		0.674									

system error: No error

new detector	location	kind	dosis (µSv/h)	error no	error MySQL	error hardware	alarm (radiation to high or to low)
DET_NEW01	outside the hall - gamma		0.062				
DET_NEW02	klystron hall gamma		0.070				
DET_NEW03	TL18 gamma		0.062				
DET_NEW04	rack room gamma		0.061				
DET_NEW05	klystron hall - rack gamma		0.061				
DET_NEW06	outside the hall - gamma		0.060				

#### 4. reset the detector

- go in the rackroom in front of the radiation protection crate
- disconnect the cable of the detector (here 4) for 30 seconds



#### 5. after this the wrong detector is ok hopefully

- detector 4 is green now

