RPC eco-gas at GIF++
Weekly report

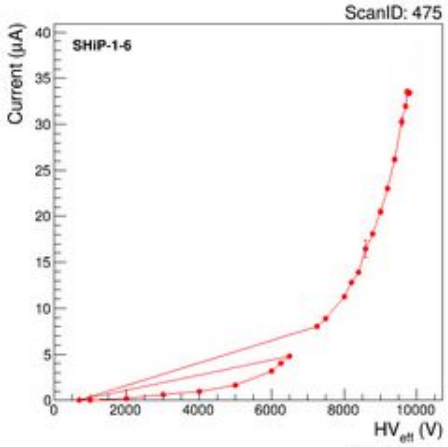
April 27th, 2023

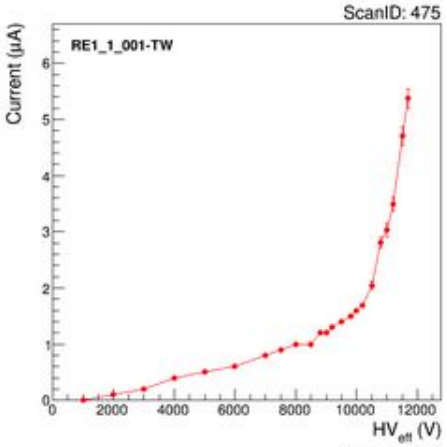
Barbara Liberti, Giorgia Proto, Marco Sessa

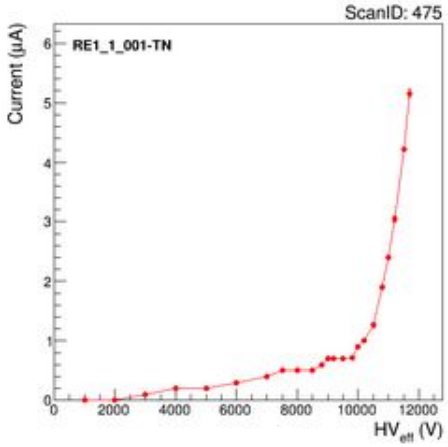
STABILITY RUN DURING LAST WEEK, RUN ID 165

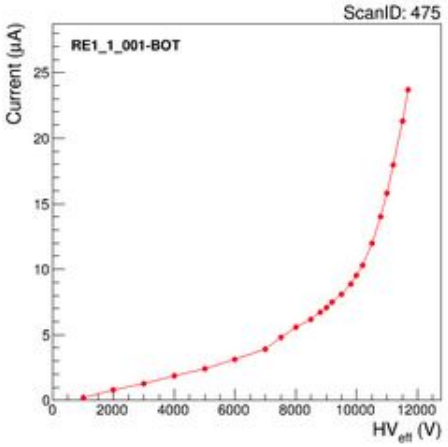
- ECO2 gas mixture (60:35:4:1)
- ~15 hours with source ON
- Detectors included: ALICE, SHIP, CMS and ATLAS

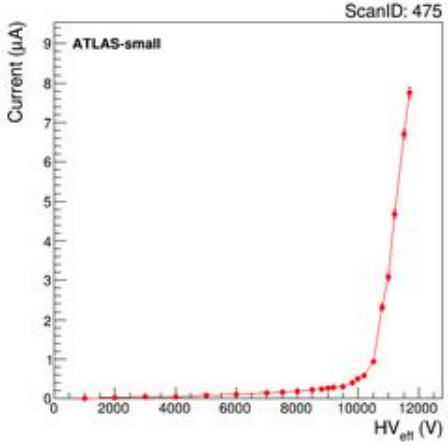
HV SCAN OF THE PREVIOUS WEEK

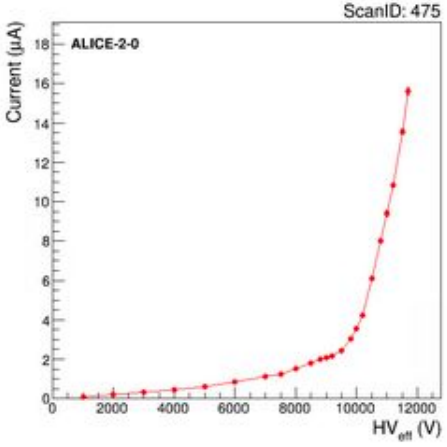




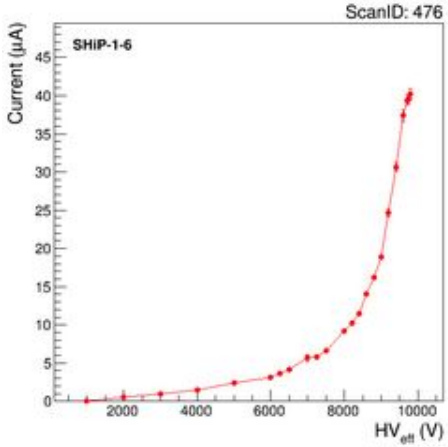


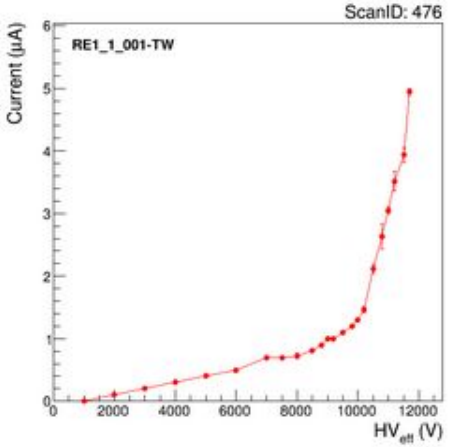


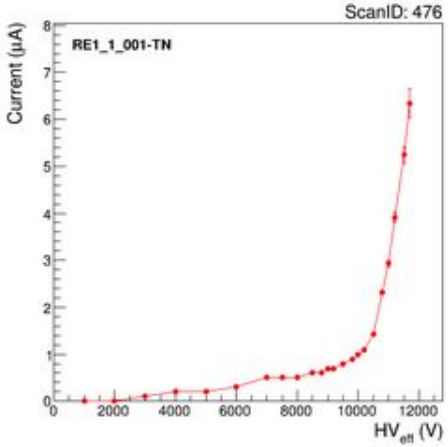


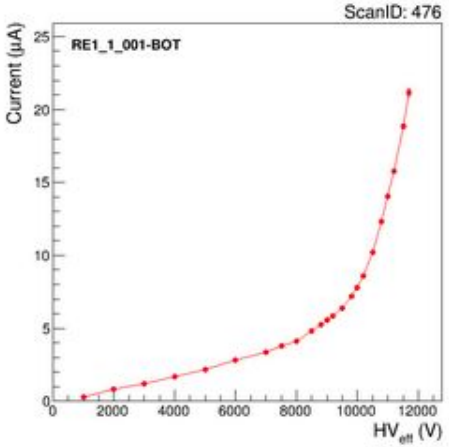


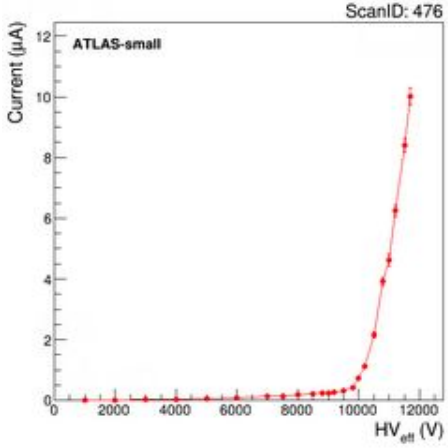
YESTERDAY HV SCAN

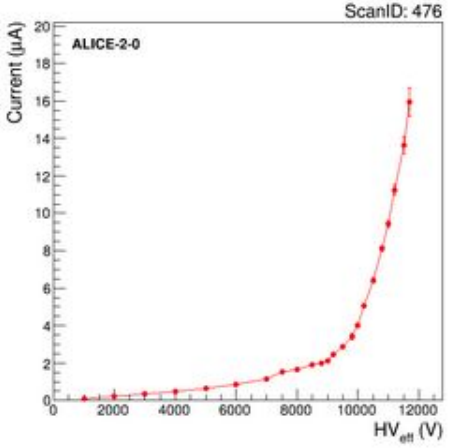




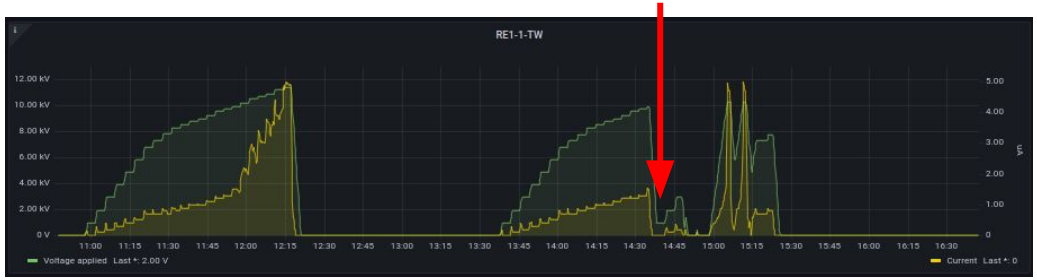








TROUBLES WHEN STOPPING THE HV SCAN



WebDCS Ecogas

DIP | HVscan | Stability | Hardware | Settings

Process monitoring

Process	Status	PIDs	ps dump	Run file
Stability	NOT RUNNING	n/a	n/a	
HVscan	NOT RUNNING	n/a	n/a	
TDC DAQ	NOT RUNNING	n/a	n/a	DAQ_IDLE
DIGITIZER DAQ	NOT RUNNING	n/a	n/a	
DQM Analysis	NOT RUNNING			

RUNNING

Kill DAQ processes | Kill DCS processes | Kill DQM processes | Reset HVscan runfile | Reset stability runfile | Reset gas kill

Operational ranges

Name	Parameter	Min. error	Min. warning	Max. warning	Max. error	Current value	Status

Running cronjobs

Monitor name	Description	Script	Arguments	Status
PTcorr	PT correction	PTcorr		OK
DIP	DIP client	DIP		OK
GasKill	GasKill from Grafana - turn of stability	gaskill		OK
Check stability script	Check if stability process is still running	stabilityCheck		OK

From the slides of Giuliana and Alessandra link

Instructions for next shifter

- EP-DT and BARI still excluded
- ATLAS, ALICE, RE1-1, SHiP to be included
- For current scan use template 475
- For stability scan use template 164 (parameters for ship updated also in the second tab of the checklist)

Chamber/gap	Enabled	Working voltage (V)	Standby voltage (V)	i0 (uA)
ALICE-2-0	☑	10600	6500	90
ATLAS-small	☑	10600	6500	50
SHiP-1-6	☑	8800	5000	150
RE1_1_001-BOT	☑	10600	6500	100
RE1_1_001-TN	☑	10600	6500	100
RE1_1_001-TW	☑	10600	6500	100