

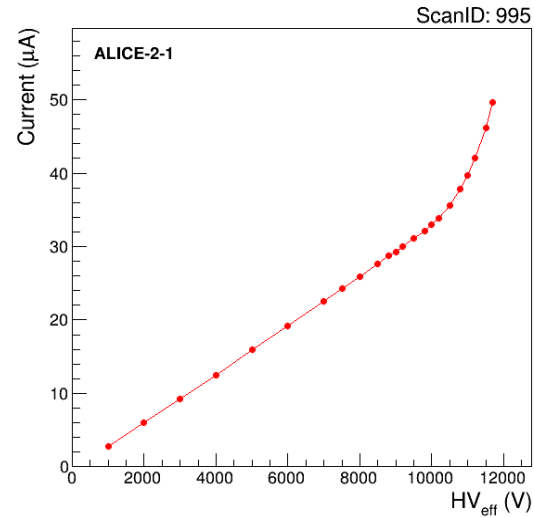
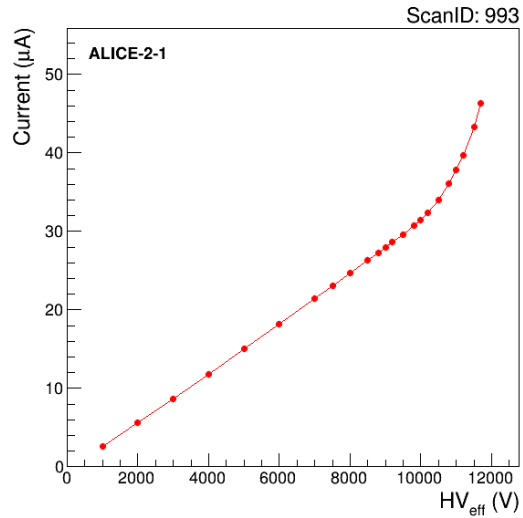
Report on ECOgas weekly shift (16th-22nd Oct 2024)

Umesh INFN Bari

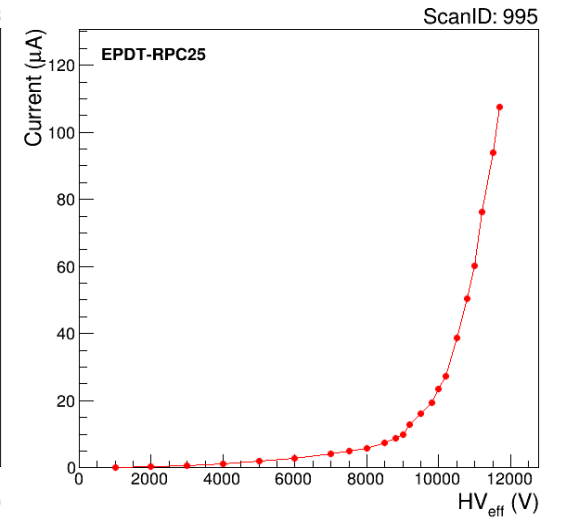
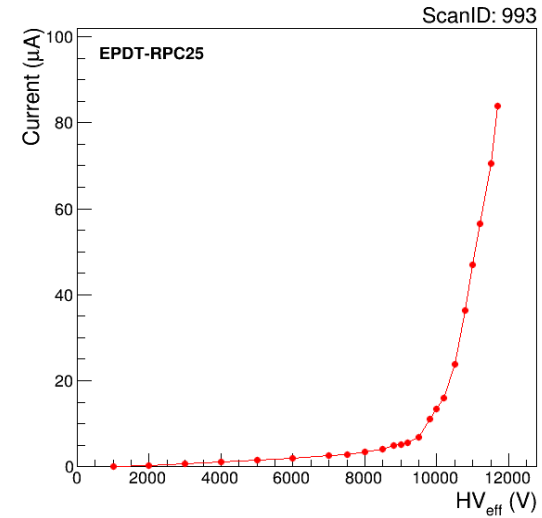
System status:

- Weekly source off scans: **994 and 995**
- Stability run **227 running**
- Kodel HV reduced from 7.7 kV to 5 kV (by Dayron)

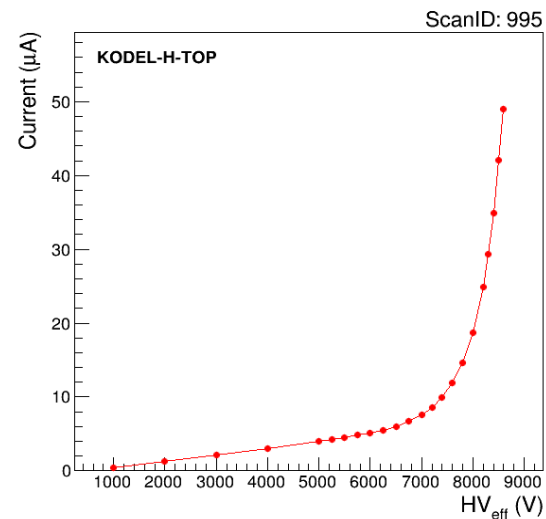
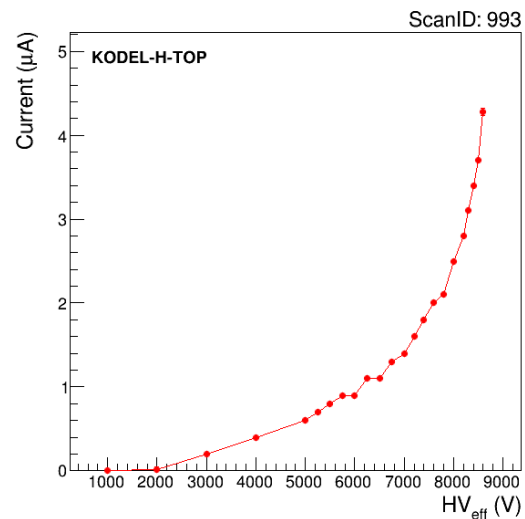
Source off Comparison SCAN ID 993 (9th Oct) : 995 (16th Oct)



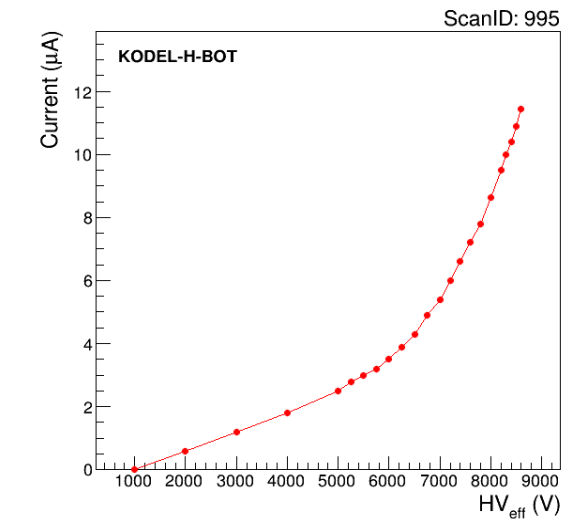
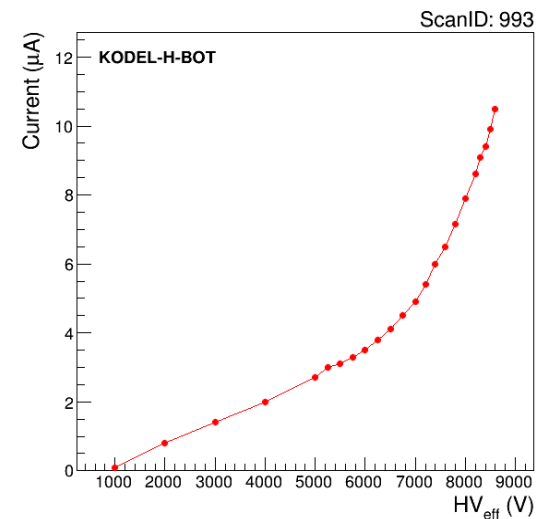
Alice RPC current increased from 49 μA to 51 μA



EPDT RPC current increased from 85 μA to 110 μA

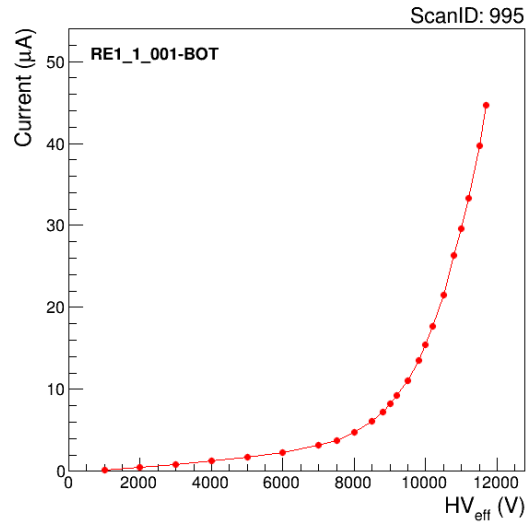
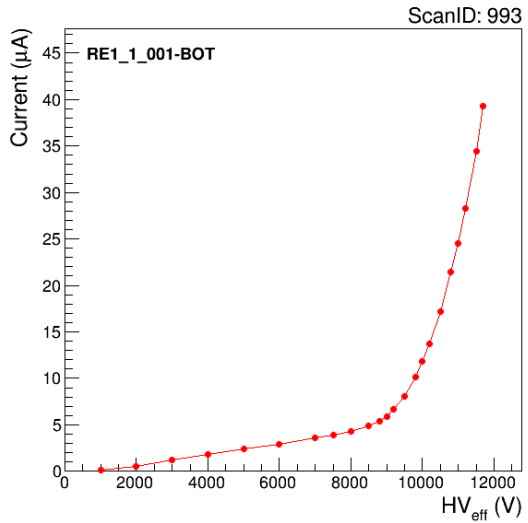


Drastic increase in current in the Kodel-H-Top, 4 μA 50 μA

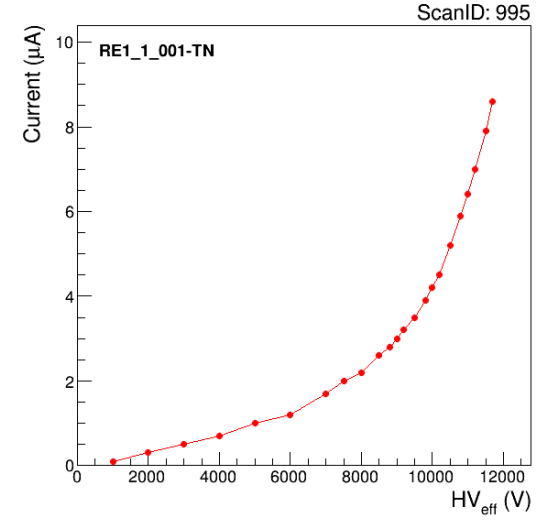
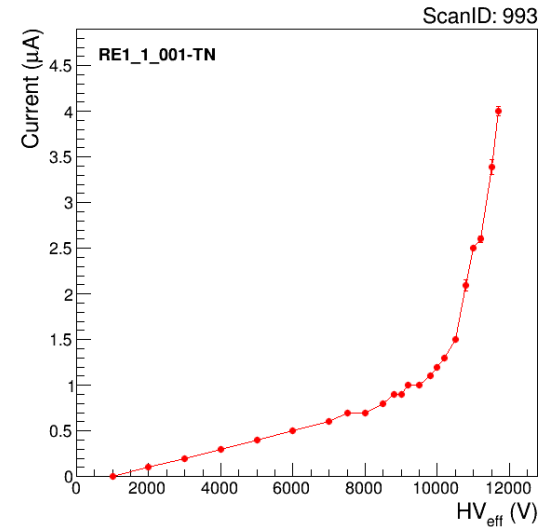


While in Kodel-H-Bot quite stable

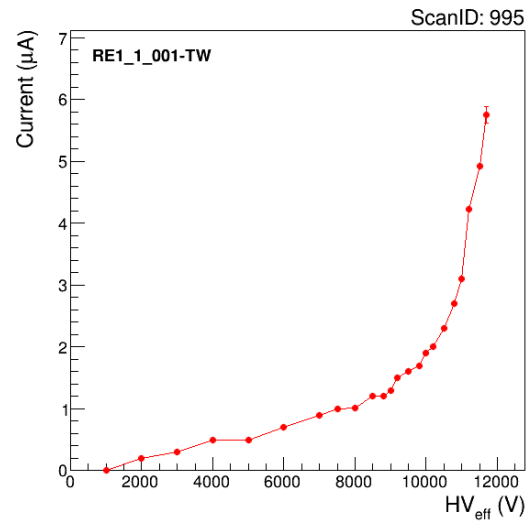
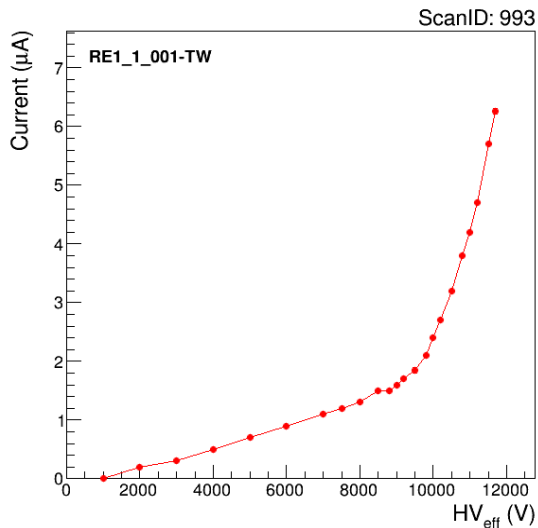
Source off Comparison scan ID 993 (9th Oct) : 995 (16th Oct)



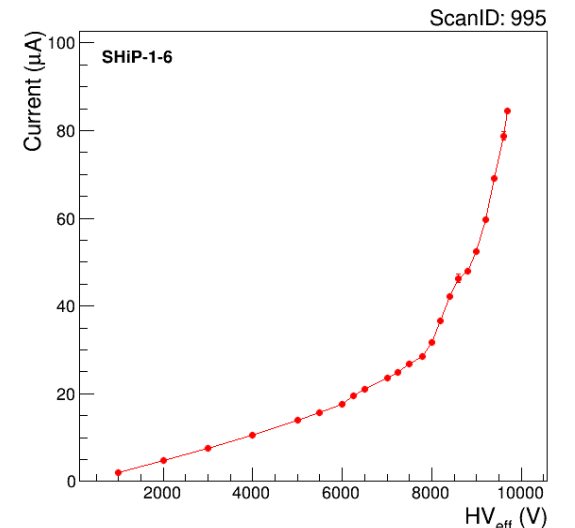
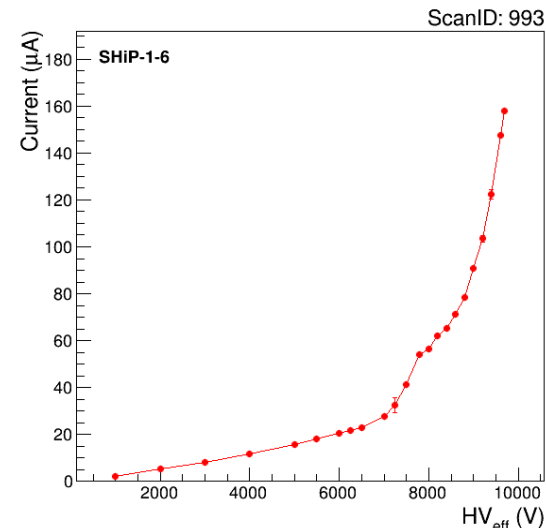
RE1_1 BOT current increased from 40 μA to 46 μA



RE1_1 TN current increased from 4 μA to 8.5 μA

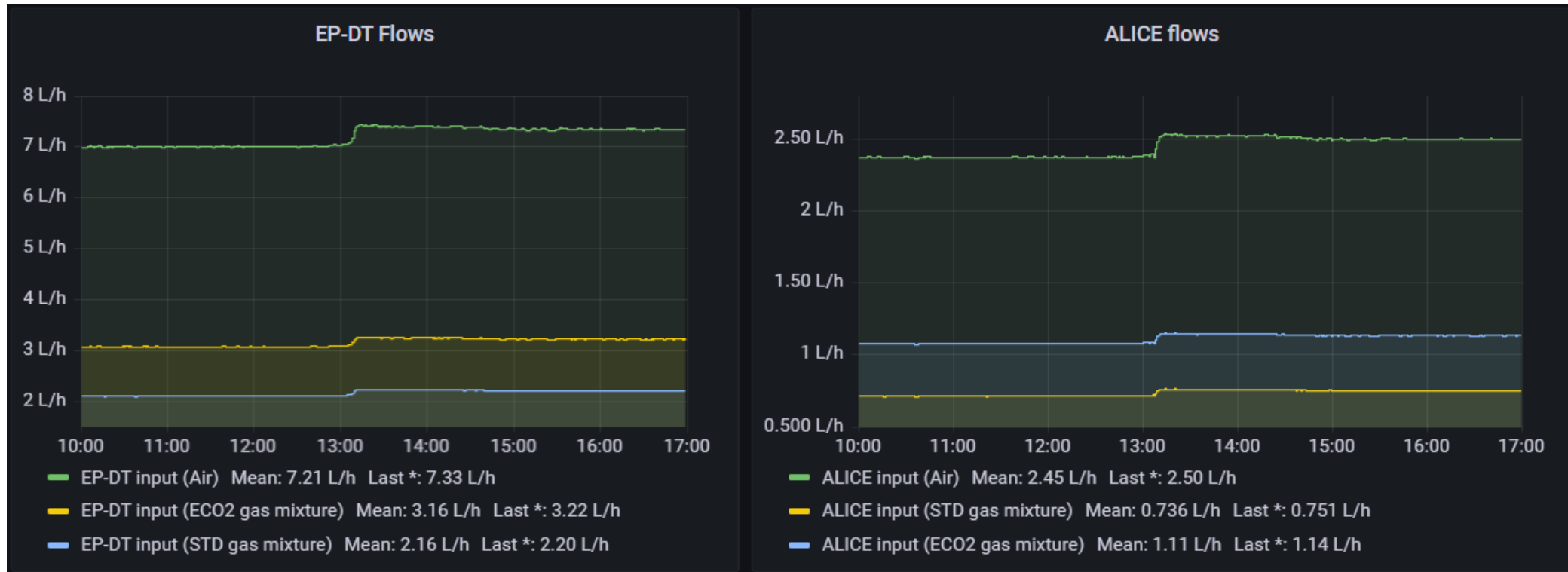


RE1_1 TW not much change in current



SHIP Chamber current dropped from 160 μA to 85 μA

- Last Wednesday, October 16, 2024 (when the source was in off), around 1 p.m., some CMS personnel in the bunker moved/shifted trolleys (got this information from Dayron). At the same time, it was observed that there was a modest increase in gas flow in all of the chambers.



- At EPDT chamber flow increased from 7 L/h to 7.4 L/h
- At ALICE chamber flow increased from 2.37 L/h to 2.5 L/h



- At RE11 Top flow increased from 2.14 L/h to 2.28 L/h
- At RE11 Bot flow increased from 2.33 L/h to 2.46 L/h
- KODEL H flow increased from 8.74 L/h to 9.1 L/h
- SHiP chamber flow increased from 3.78 L/h to 4 L/h

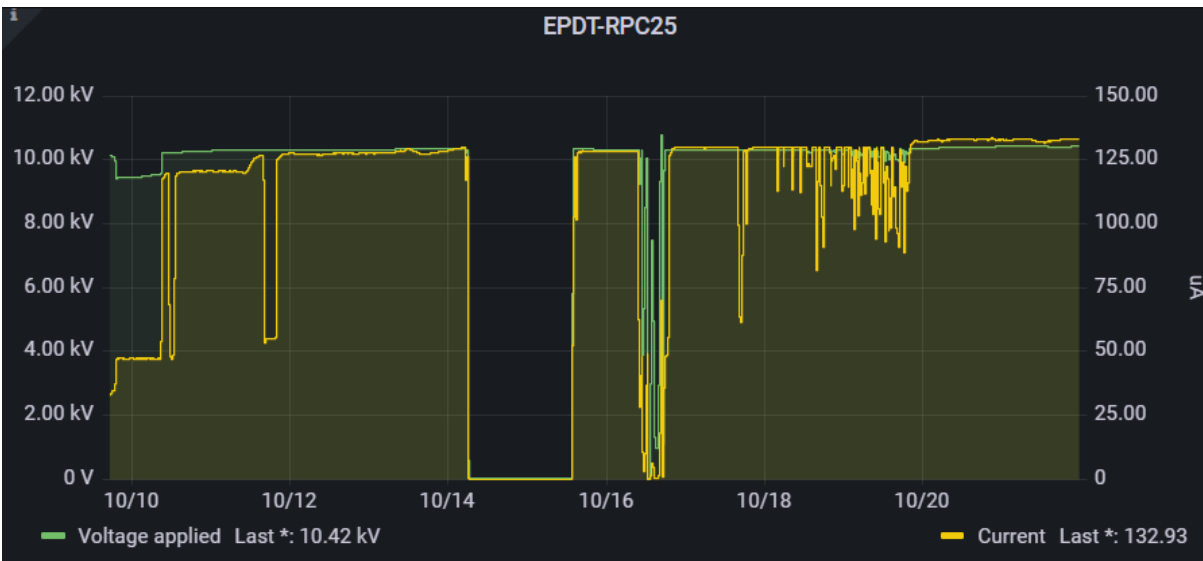
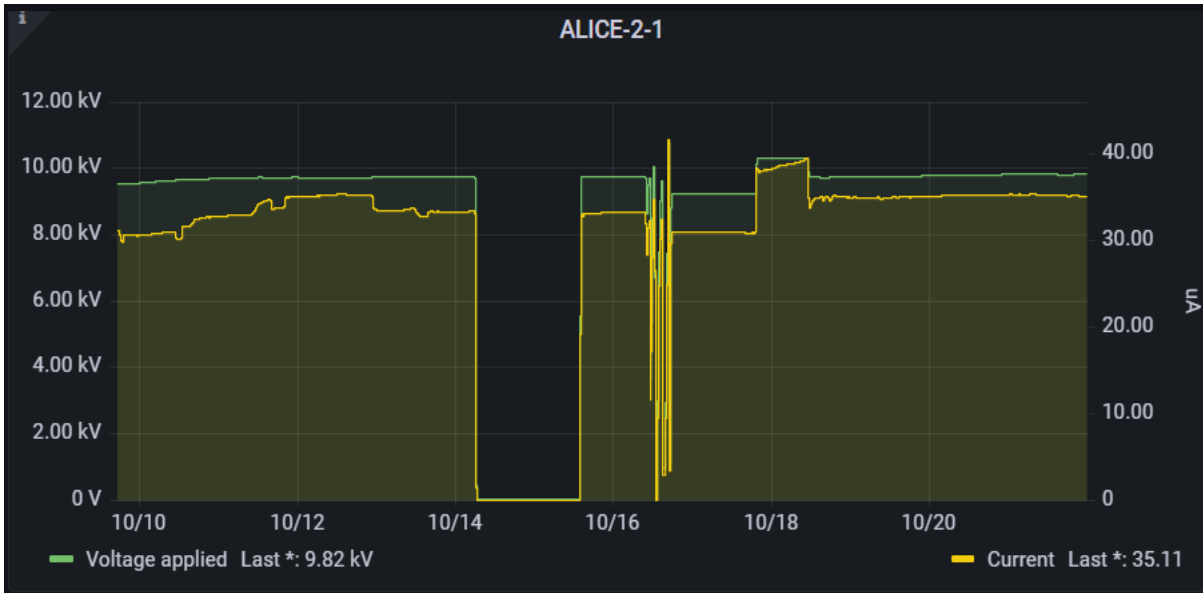
Stability Run 227 overview

ALICE-2-1 RPC

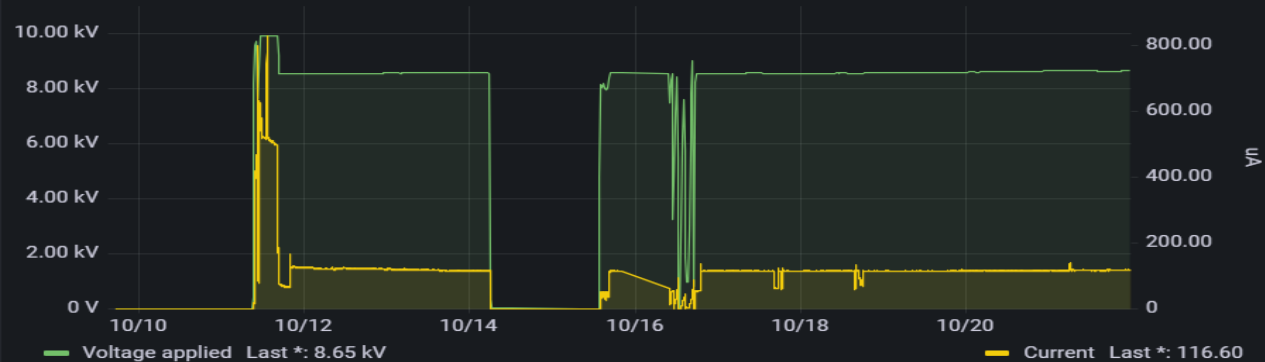
- Last Thursday evening Luca increased HV to 10.6 kV, current drift was observed and reduced HV to 10 kV
- Current: 35 μ A @ 10 kV

EPDT-RPC 25

- HV: 10.6 kV
- Current: 133 μ A



SHIP

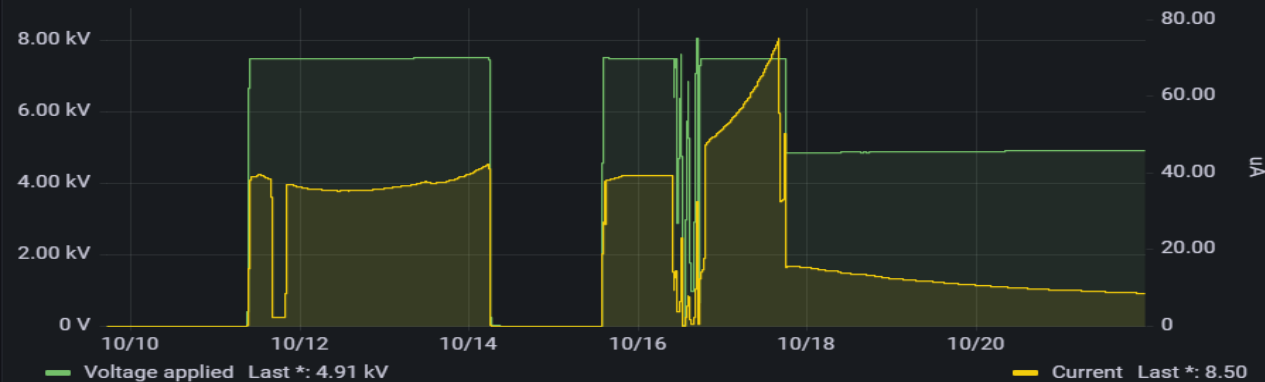


SHiP RPC

HV: 8.8 kV

Current: 115 uA

KODEL-H TOP

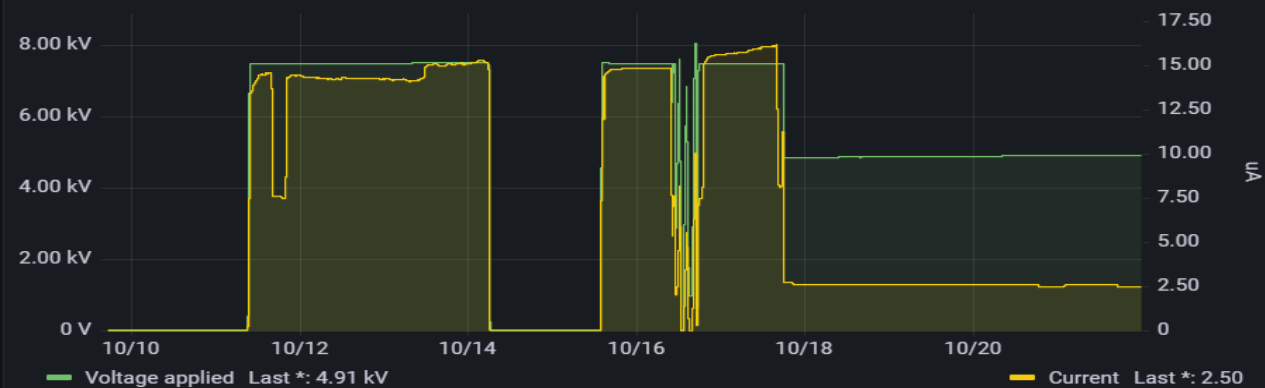


KODEL-H TOP

HV reduced from 7.7 kV 5 kV

Current: ~ 8 uA

KODEL-H BOT

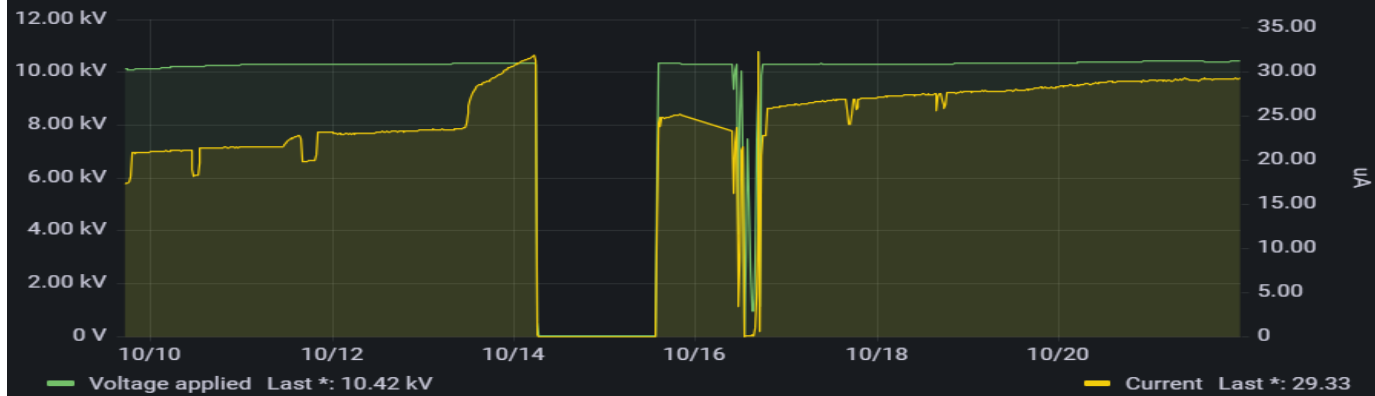


KODEL-H BOT

HV reduced from 7.7 kV to 5 kV

Current: 2.6 uA

RE1-1-BOT

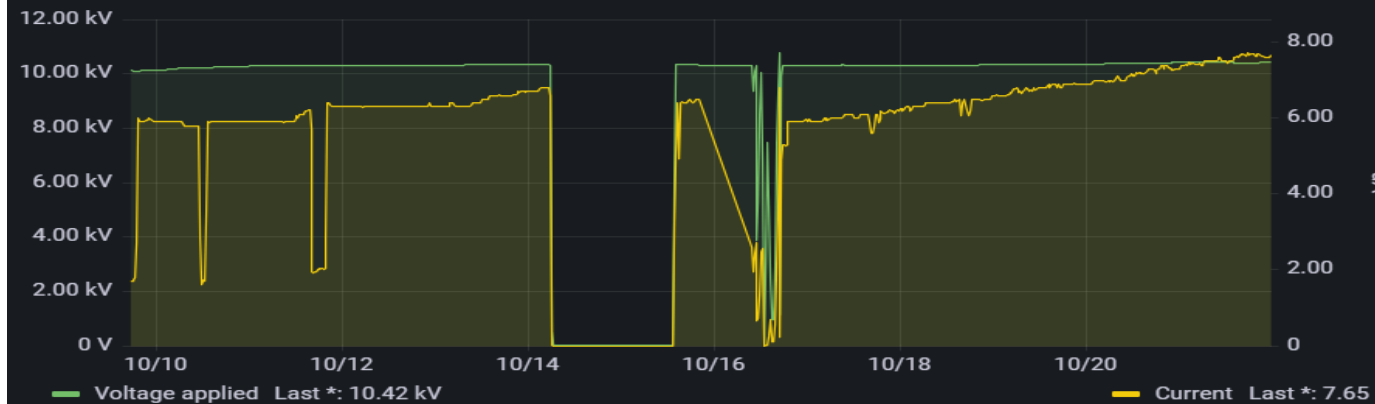


RE1-1 BOT

HV: 10.6 kV

Current: 26 to 29 μA

RE1-1-TN

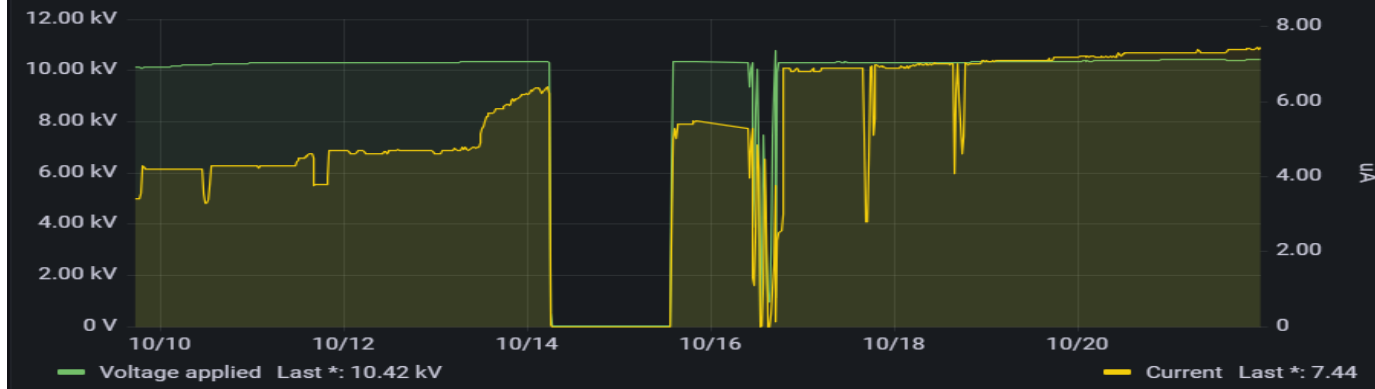


RE1-1 TN

HV: 10.6 kV

Current: 5.9 μA to 7.6 μA

RE1-1-TW



RE1-1 TW

HV: 10.6 kV

Current: 10.4 μA

Conclusions:

- ALICE chamber dark current slightly increased in Source OFF HV scan.
- EPDT chamber dark current increased from 85 to 110 μA .
- SHiP chamber current dropped from 160 μA to 85 μA from last week's source off scan, current in stability scan 115 μA .
- RE1-1 TN RPC current increased slightly both in stability scan and source off HV scan.
- RE1-1 BOT RPC current slightly increased in stability scan.
- There was a increase in flow observed in all chambers on 16/10/2024 around 13:15 hrs.