

ECOGAS- Ageing studies

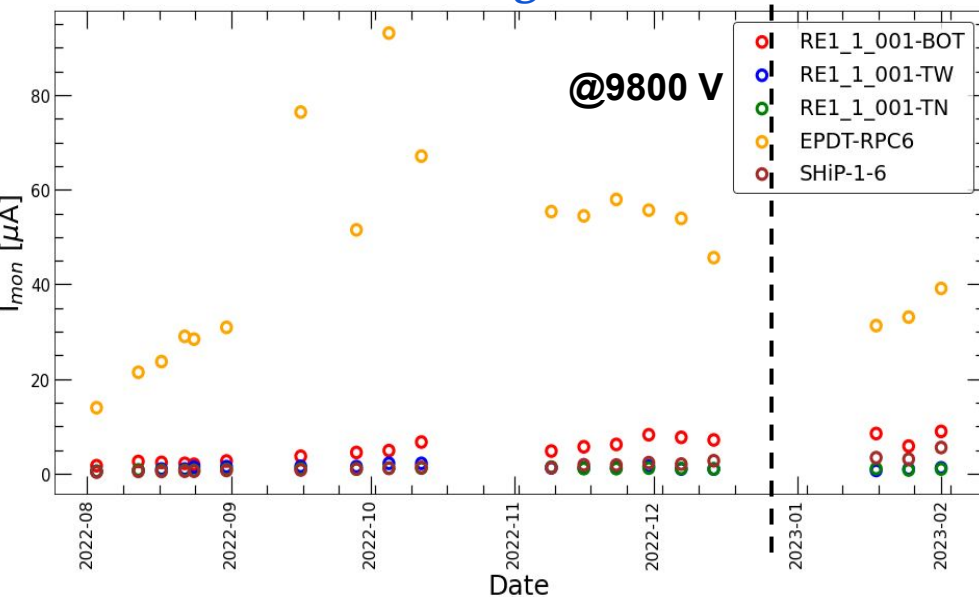
-Amrutha Samalan

ECOGAS ageing study- analysis and results

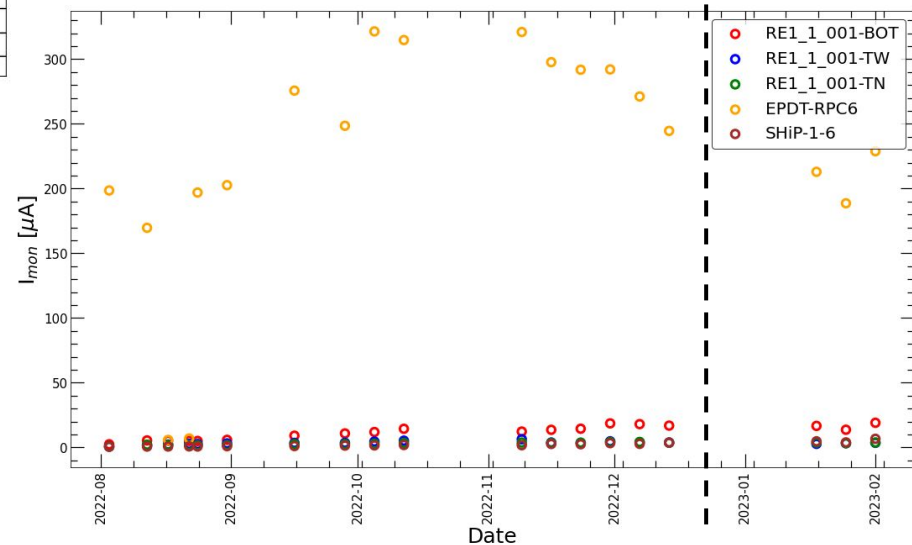
- Analysis of source off scans from 03 August 2022 to 01 February 2023
- Gas mixture: **ECOGAS2** (35% HFO, 60% CO₂, 4% iC₄H₁₀, 1% SF₆)
- Scan ids of the data plotted: Weekly source off scans from 381 to 452 (list of scan id for ATLAS and ALICE are different since they were excluded for some scans)

(A drift in the absorbed current of ATLAS-small RPC was observed on 12th of September. So it is excluded from the runs after that. Now the chamber is back in data taking mode)

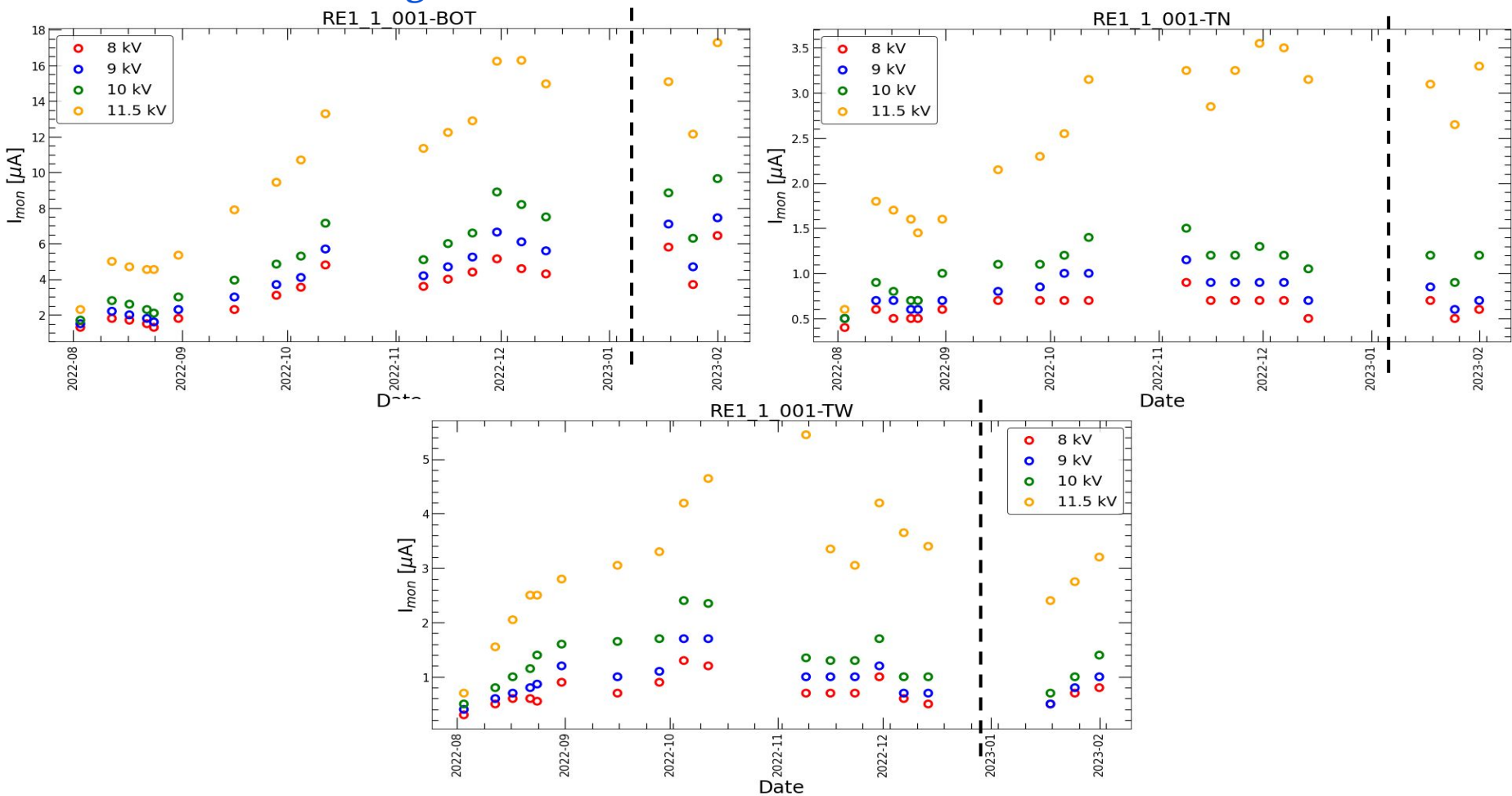
Dark current monitoring from 3/8/22 to 01/02/2022



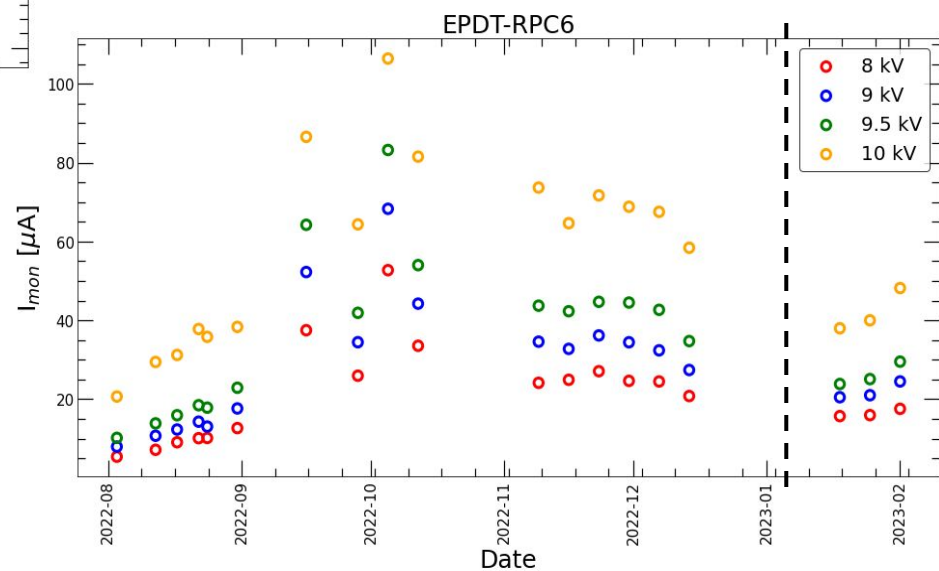
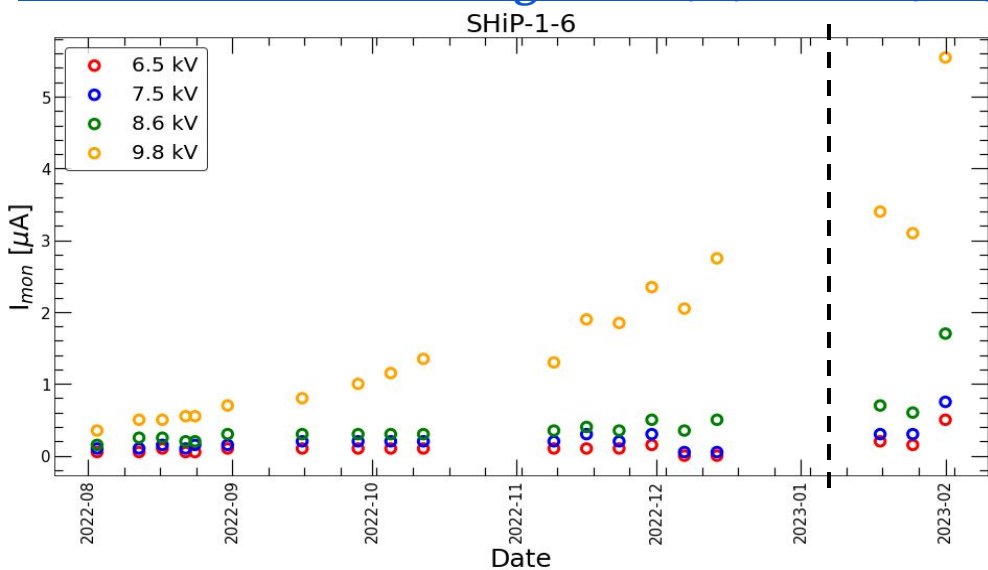
Current @ last HV points: 10 kV for SHiP; 11.7 kV for others



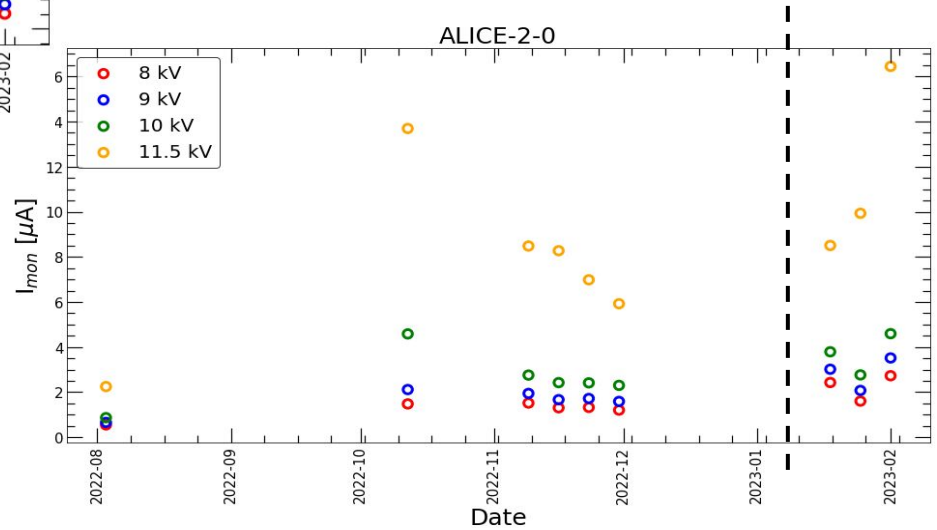
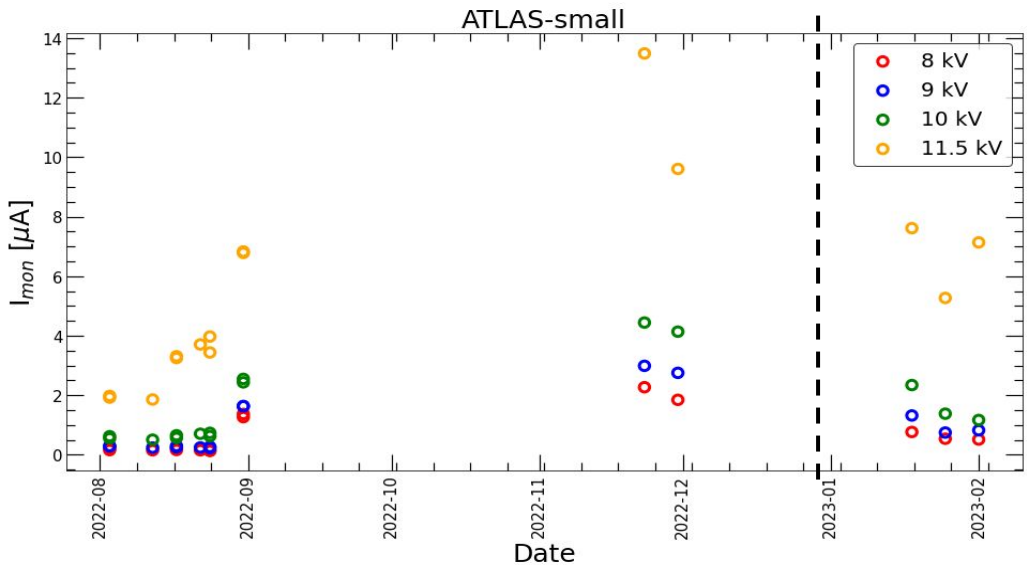
Dark current monitoring from 3/8/22 to 01/02/2022



Dark current monitoring from 3/8/22 to 01/02/2022



Dark current monitoring from 3/8/22 to 01/02/2022



Summary

After the winter break,

- RE11 TW,TN, BOT are showing slight variations in the currents compared to the previous situation
- Currents in the SHiP chamber increased slightly
- For EPDT chamber, currents remains almost in the same range
- For ATLAS chamber, a drop of few μA is observed for
- For ALICE chamber, an increase of few μA is observed

Thank You