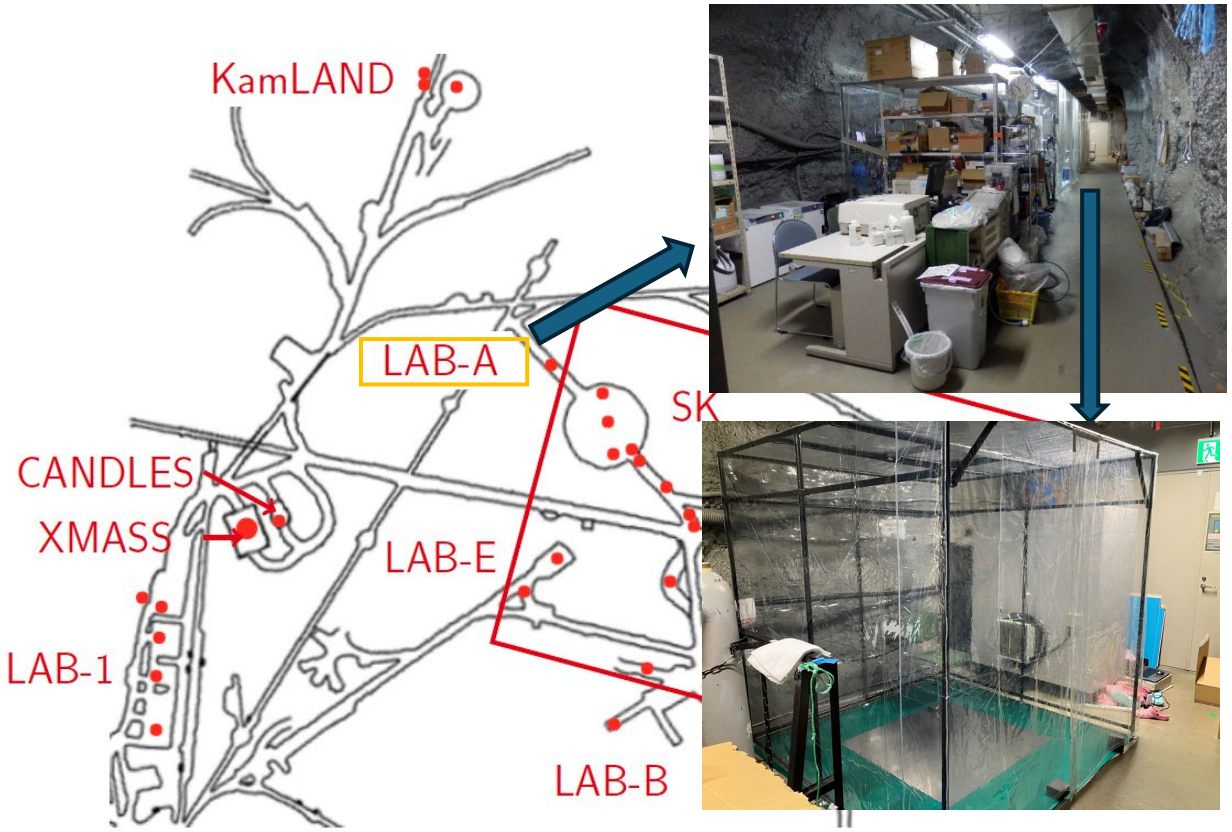
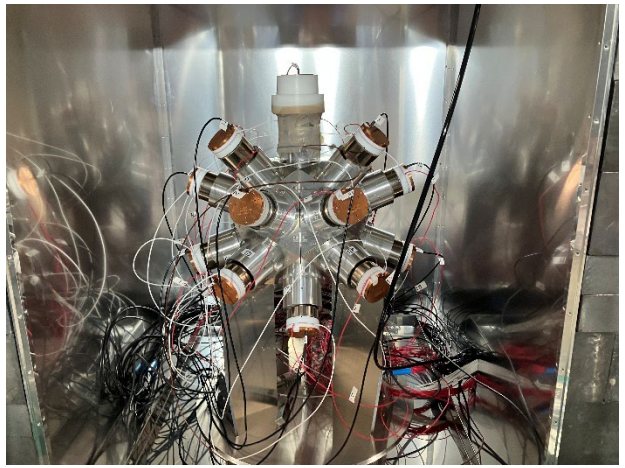
2ν-ZICOS experiment for measurement of ^{96}Zr 2νββ half-life





The first data taking implemented over 50 hours from November 22nd to 25th.

Data analysis is going on… Stay tuned!

- Clean booth was built in LAB-A.
- 20 2” Ultra Low BG PMT Hamamatsu R10789 were installed by regular icosahedron jig.
- 16 cm diameter round bottom flask with ultra-pure Quartz was used for detector body.
- 0.73L of ZICOS LS loaded 73g of $Zr(iPrac)_4$ including ^{96}Zr 0.27g was stored in ETFE bag.
- Pure anisole (solvent of ZICOS LS) was filled outside of ETFE bag.
- Radiation shield with 15cm thickness was constructed by 650 lead blocks.
- All signals were collected by V1742 Digitizer.