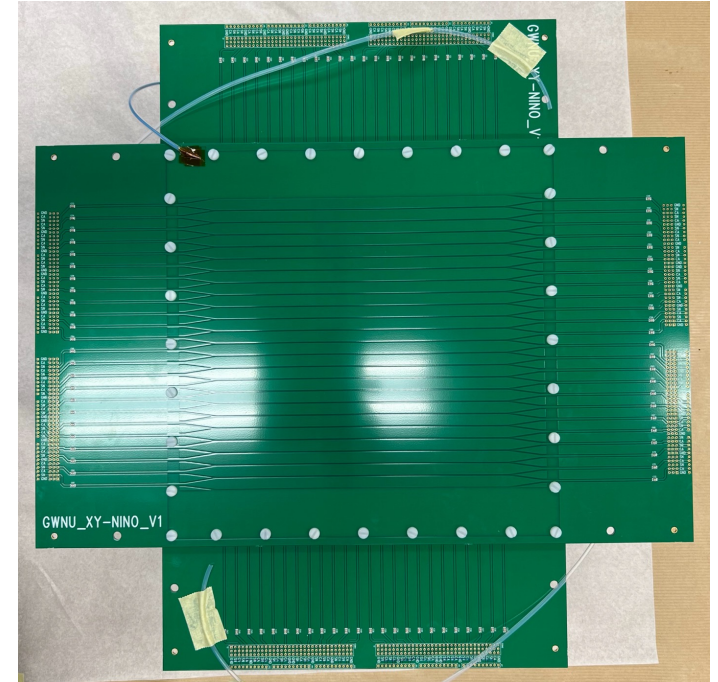


ALICE TOF(incoming) T10-W33

Yongwook BAEK
GWNNU

MRPCs

- 2-Dim readout of single stack MRPC
 - 8 mm pitch of strips
 - 6 gas gaps of 330 μ m each
 - xy-position resolution < a few mm
 - Time resolution < 100 ps
- Double stack MRPCs
 - 2 MRPCs for tracking
 - 5 gas gaps of 250 μ m
 - Time resolution \sim 75 ps



Setup

- 4 timing scintillators for reference time
 - 40 ps of time jitter
- 2 scintillators for trigger



Test & measurement

- HV scan, Position scan at a low rate
- Gas mixture
 - Consumption $\sim 0.5\text{l/h}$
 - Standard gas for 3 days
 - Eco-friendly gas for 3 days
- Beam momentum
 - 1, 5, 10 GeV/c of positive