

Updates 6.29.2026—Cici Hanna, Fermilab

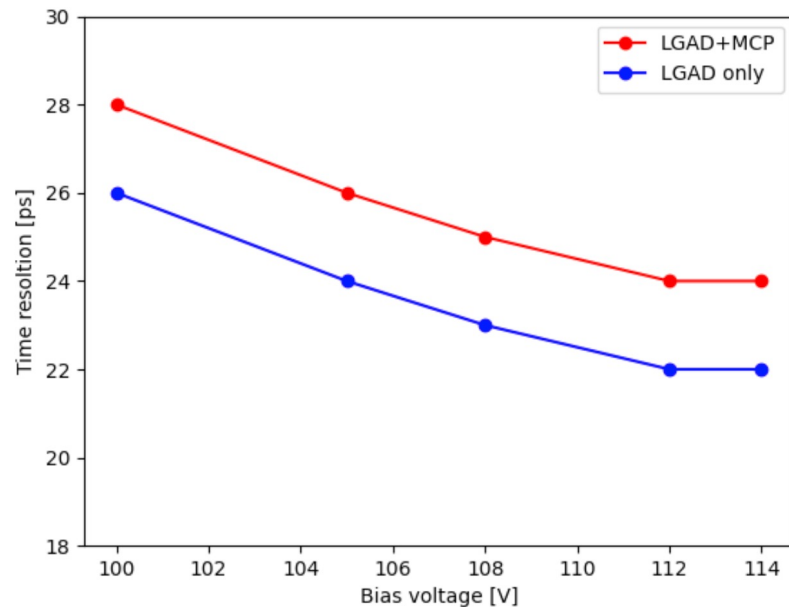
- Have been at IMCC/MuCol Annual Meeting at CERN
- Presented [talk](#) and [poster](#) about instrumentation for the muon cooling demonstrator
- Been reproducing plots of AC-LGAD timing precision measurements for $600\mu\text{m}$ and $100\mu\text{m}$ pixels



Matching timing reconstruction

Shuoxing's analysis of the data

Timing resolution vs VB



Assuming 10ps from MCP (measured at beam)

My analysis of the data

LGAD Timing Resolution: 600um sensor assuming 10ps MCP

