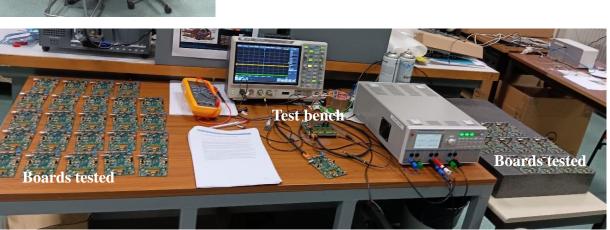
Curved CPS project – Board & DAQ on 20/09/2024

- ▶ 1 Goal = transfer of Msis boards know how to Utech team \rightarrow Mimosis (1,2,3) proximity boards
 - ▶ Schematics and test procedure explained to F.Agnese, O.Clausse, F.Wabnitz, JS.Pelle (not uTech ;-)
 - ▶ Testing of 40 boards is running, done by Franck & Olivier
 - ▶ Boards test procedure already defined by K.Jasskelainen for CBM collaboration

MIMOSIS1 PROXIMITY BOARD TEST PROCEDURE

1 INTRODUCTION 2. TEST DESCRIPTIONS AND TEST SCENARIOS 2.2. MATERIAL AND SOFTWARE REQUIREMENTS 2.5. DEFAULT SHUNT JUMPER SETTINGS STEERING INPUT SIGNALS TEST 2.9. EXTERNAL RESET SIGNALS TEST 15 17 21 2.12. DATA OUTPUT SIGNALS TEST (OPTIONAL) 28 APPENDIX A: TEST REPORT 28 A2 VISUAL VERIFICATIONS A2 POWER-OFF TESTS 28 A3 DEFAULT SHUNT JUMPER SETTINGS A6 STEERING INPUT TEST AS SLOW CONTROL CONNECTION TEST A10 DATA OUTPUT TEST (OPTIONAL) APPENDIX B: 100 OHM TERMINATION ADAPTER







Curved CPS project – Board & DAQ on 20/09/2024

- ▶ $2 Goal = Provide \ a \ DAQ \ system for Msis \rightarrow "My" DAQ development crate$
 - ► NI PXIe FlexRIO + Front end NI6587 DAQ
 - ▶ Max 12 data inputs links (320 Mb/s DDR), can be used to
 - ► Test and characterize 1 x Msis (8 inputs needed)
 - ► Acquire N x Msis for an experiment
 - ► Up to 6 x Msis with 2 output / Msis → Typical beam telescope setup
 - ▶ Up to 12 x Msis if only one output is used



- System will be available for end of September / beginning of october
 - ▶ I still need to fix a bug in our common libraries found last week (due to Windows → Linux upgrade)
 - ▶ I should not need it in coming months, I have another DAQ to develop, but it could happen that we will need it for time to time
 - ► Training to JS.Pelle, F.Agnese, O.Clausse will be organized
 - ► A user tutorial exists, written by M.Goffe
 - ▶ DAQ development
 - ► SC : M,Specht
 - ▶ DAQ FW : K.Jaaskelainen
 - ▶ DAQ SW : G.Claus



