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## **Lab-facility of HEP detectors and related technology for training, development, fabrication, applications and innovation**

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In this work we present the process of construction, development, some results and further advances of the “Laboratorio de Detectores” (Detectors Laboratory), of the UAN, as a R&D laboratory for training, development, fabrication, applications and innovation particularly with SiPMs and MPGDs and their related technologies. The goal of this lab-facility is to support the training of PhD students and young researchers in High Energy Physics detectors to increase the critical mass in such important scientific and technological advances, in particular for Latin-America with new capacities for detectors development, fabrication, quality control and characterization in HEP and new applications in other disciplines and social sectors. This lab-facility supports a new PhD program in applied science at the UAN to benefit the radiation detectors community in general and in particular the RD51 program at CERN, and the NEXT experiment at CSIC, with more professionals, students and infrastructure dedicated to the radiation detectors and related technology.

**Primary author:** Mr CASTAÑO FORERO, Javier Fernando (Universidad Antonio Nariño)

**Co-authors:** Dr HERNANDEZ DUARTE, Andres Ignacio (Universidad Antonio Nariño); Dr YEPES RAMIREZ, Harold (Universidad Antonio Nariño); Mr CASTAÑEDA MELO, LUIS FERNANDO (Universidad Antonio Nariño); Dr GUTIERREZ SALAMANCA, Rafael M. (Universidad Antonio Nariño)

**Presenters:** Mr CASTAÑO FORERO, Javier Fernando (Universidad Antonio Nariño); Mr CASTAÑEDA MELO, LUIS FERNANDO (Universidad Antonio Nariño)

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