

Modern African Nuclear DEtector LAboratories at UWC/UNIZULU

As part of a Global Funding/STFC collaboration between the Universities of the Western Cape (UWC) and Zululand (UNIZULU) in South Africa and the University of York in the UK, two nuclear laboratories are being built at UWC and UNIZULU and extensive student training and technology transfer on particle detectors, digital systems and GEANT simulations is being carried out at the University of York. The goal is to create modern laboratories where state-of-the-art research on new detector development can be carried out by SA students and researchers. Developments include fast digital systems (CAEN and XIA) to be used with plastic scintillators for medical applications or the study of underground radiation in the Richards Bay large industrial area. Additionally, the development of new detectors systems to be coupled with the GAMKA array for fundamental research (including SiC, ionization chamber, etc) and simulations with GEANT4 on the Cloud are also crucial parts of our program.

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