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Overview on the African LaBr Array at iThemba LABS

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The African LaBr Array (ALBA) consists of 21 large volume LaBr₃:Ce. The characteristics of these crystals, such as the good energy resolution and the high efficiency, make this array very useful for the detection of high-energy gamma rays. The ALBA project foresees the use of the gamma spectrometer in stand-alone mode and coupled to the K600 spectrometer or to silicon-detector arrays for the particle identification. A Digital acquisition system based on XIA PIXIE 16 cards (12 bit 500Mz digitization) will be used. The 21 detectors of ALBA arrived in 2021 and the S-line support frame is now being completed. An overview of the project will be given underling the physics program that is envisage for the upcoming future.

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