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Experimental evaluation of the ClearPEM Detector Modules

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ClearPEM is a project to develop a state of the art Positron Emitting Tomograph dedicated to early breast cancer detection. It is developed by a consortium of Portuguese research institutions within the framework of the Crystal Clear Collaboration. The scanner has a modular architecture, where each detector module features an array of 32 LYSO crystals, with double readout by two pixelated Avalanche Photo Diode arrays. The first detector modules have been successfully assembled and tested. In this talk we will present the results of these tests, in terms of Signal Yield, Photopeak Resolution, Asymmetry and Crosstalk.

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