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Study of proportional electroluminescence in two-phase argon

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Content

This work was performed in the course of the development of a two-phase Cryogenic Avalanche Detector (CRAD) in Ar for dark matter search and low energy neutrino experiments. The detector included EL gap located directly above the liquid-gas interface, which was optically read out using cryogenic PMTs located on the perimeter of the gap and matrix of Geiger-mode APD (GAPD). The results of the measurements of detector sensitivity to X-ray-induced signals and EL gap yield are presented.

Summary

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