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Results on LAPPD 38 single photoelectron detection and measurements of charge cloud radius

Wednesday, 30 November 2022 14:35 (20 minutes)

In this talk I will present my most recent results of single photoelectron detection with an Incom Inc. LAPPD (LAPPD 38). The single photoelectron signal is used to determine the characteristic dependence of gain on MCP and photocathode voltages. It is also used to calibrate the LAPPD in units of number of photoelectrons for Cherenkov light detection.

I will also discuss my incipient work on measurements of charge cloud radius in the context of tests of possible MCP gain variation due to MCP pore sharing by electrons at the amplification stage.

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