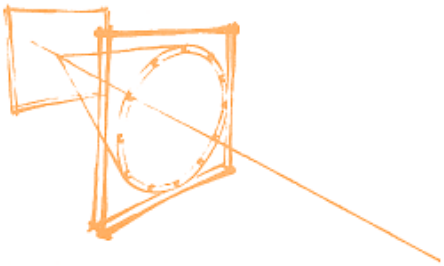

ID de Contribution: **9** Type: **Poster**

Gain and Time Resolution Simulations in Saturated MCP Pores

mardi 4 mai 2010 10:15 (1 minute)

Micro channel plate (MCP) amplifiers are commonly used in detectors of fast time signals with a pico-second resolution. The main parameters of the MCP amplifier, such as the gain factor and time resolution are strongly dependent on the work regime of the device. The saturation effects take place for a high-level input signal. In our paper these effects have been studied numerically for large area fast photo detectors. It was shown that the saturation effect for short pulses can be reduced by introducing a thin resistive layer between the bulk material and the emissive coating. The results were compared with the simulations of other authors and available experimental data.

Please indicate ”poster” or ”plenary” session. Final decision will be made by session coordinators.

poster

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Classification de Session: Poster Session 1 (Summary)

Classification de thématique: Photon detection for Cherenkov counters