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Investigation of the microstructure of Thick-GEMs with single photo-electrons

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Novel Cherenkov detector upgrades favour GEM and Thick-GEM based MPGD systems. These detectors have reduced ion backflow, fast signal formation, high gain, and could suppress the MIP signals as well. Their common drawbacks are the inefficiencies of photo-electron collection from the top of the TGEM and the local variation of multiplication due to the special geometry.

The developed high resolution scanner[1] using a focused UV light gave the possibility to study single photo-electrons.

The presentation will focus on the key elements of the scanning system; and on the microstructure evolution.

[1]: Nucl.Instr.Meth.A 694 (2012) 16

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