

# March 2010 beam test

D. Attié, P. Colas, M. Dixit, G. De Lentdecker,  
T. Maerschalk, M. Riallot, S. Turnbull, W. Wang

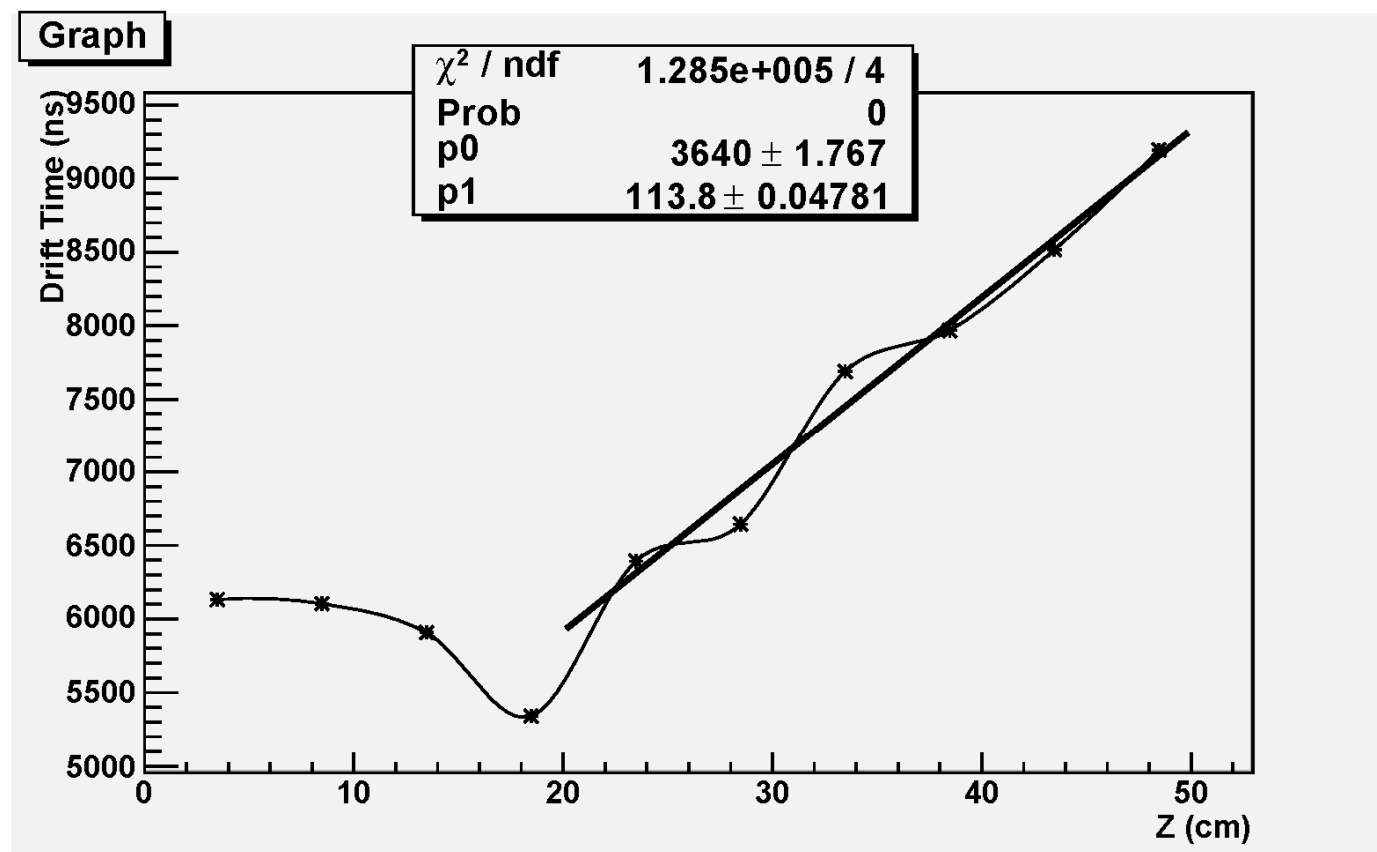
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LCTPC WP Phone meeting 101  
March 18, 2010

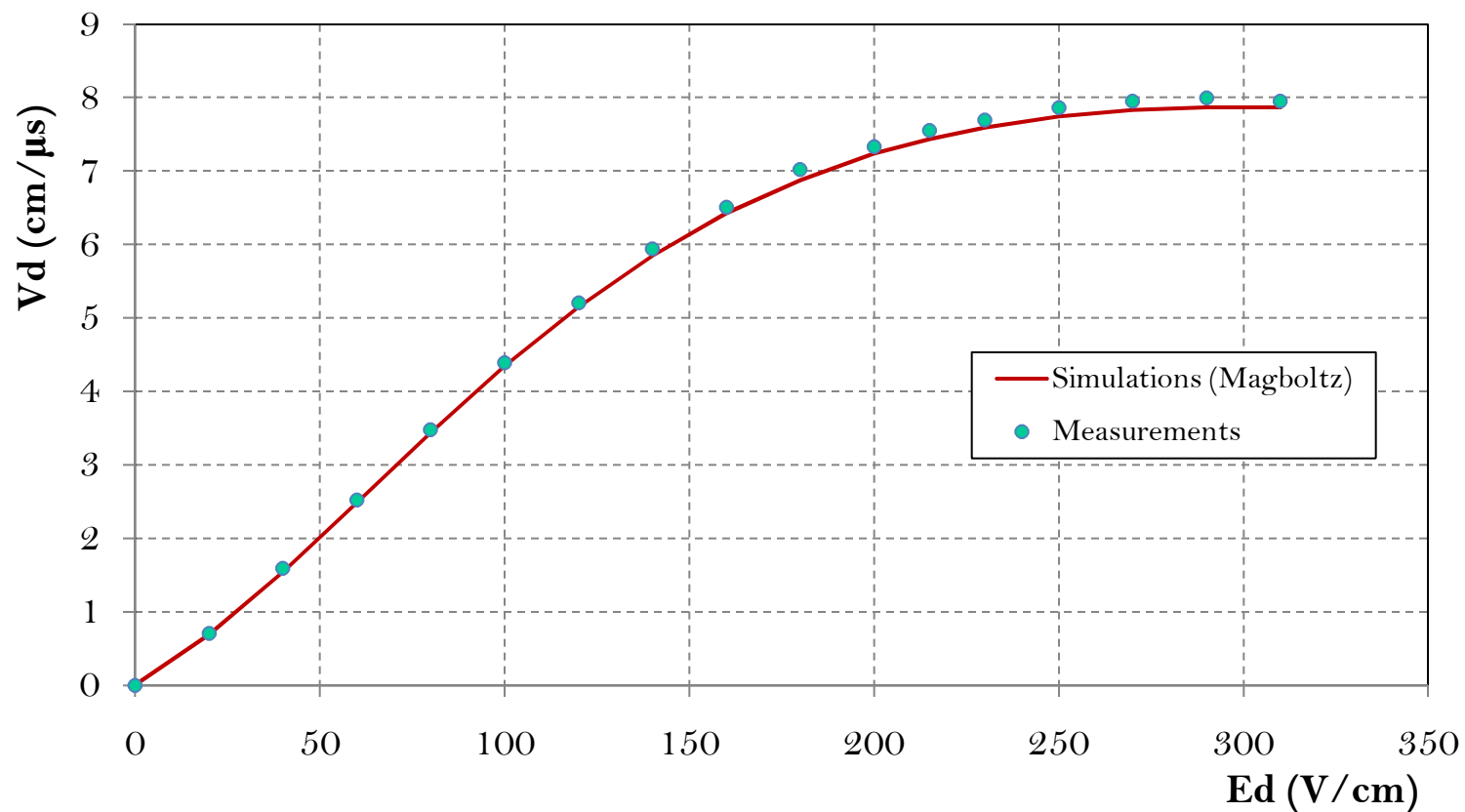


- During December tests we tested two new Carbon-Loaded Kapton (CLK2a and CLK2b) with a resistivity of  $\sim 2-3 \text{ M}\Omega/\square$ , previously it was  $\sim 5 \text{ M}\Omega/\square$  (CLK1). Everything went well, but the data was taken without magnetic field .
- In the first week, these two detectors died. For the first one (CLK2a), the reason might be linked to the fact that the first strip of field cage was not grounded. For the second one (CLK2b), the reason is still unknown.
- During a couple a days, we tried to repair them, but unsuccessfully.
- So, in the second week, the resistive ink detector and the CLK1 detector were tested more deeply.

- While we were taking data we found out that the positions were not stable confirmed by the first data analysis.
- This was due to the magnetic force induced by metal in the wall so the it could move by itself.



- The data analysis for space resolution is in progress and started during the data taking thanks to Wenxin and Stephen.
- Drift velocity in T2K gas seen by CLK2 (December '09) and compared to Magboltz simulations for  $P_{\text{sys}}=1035$  hPa,  $T_{\text{sys}}=19^\circ\text{C}$  and 35 ppm  $\text{H}_2\text{O}$



- 8 naked TimePix chips have been bonded on the octopuce card by Joop in Nikhef last month.
- Two days ago, for the first time, 8 chips have been recognized by Pixelman
- The mezzanine card works electrically using power regulators
- During operation, the total power consumption is 20 watts
- Pixelman display issue found and has to be fixed
- To be continued...

