



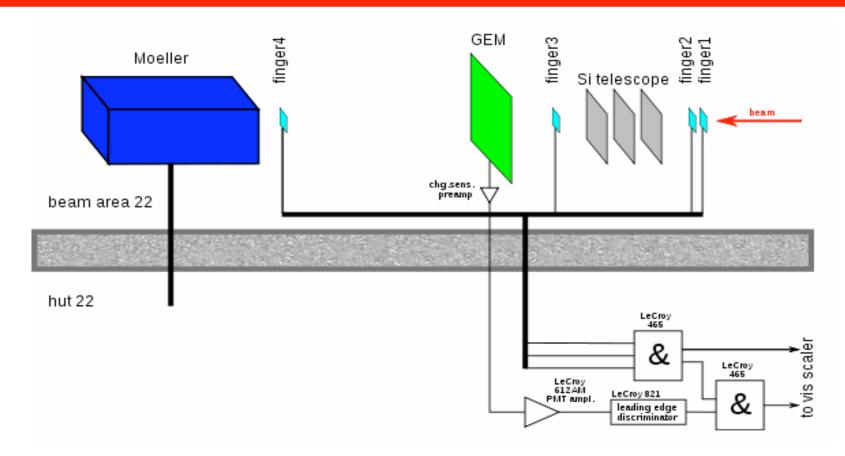
1- GEM Luminosity Monitors without APV Boards attached between May 2-June 6

2- GEM Luminosity Monitors with old and new APV Boards attached between June 6-June 25

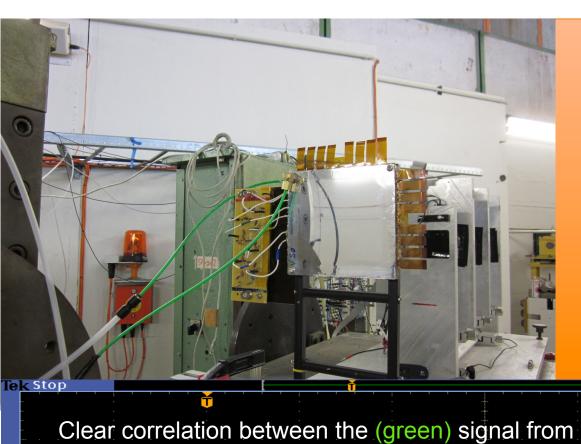
OZGUR ATES HAMPTON UNIVERSITY

27 June 2011-OLYMPUS Collaboration Meeting

1- Test Beam SET UP with preapplified 3rd GEM for the GEM Trigger Output



GEM Efficiency = (GEM Trigger & Beam Trigger) / Beam Trigger GEM Trigger = Trigger Output of Voltage Divider (Bottom 3rd GEM) Beam Trigger = Triple Coincidence of 3 Plastics



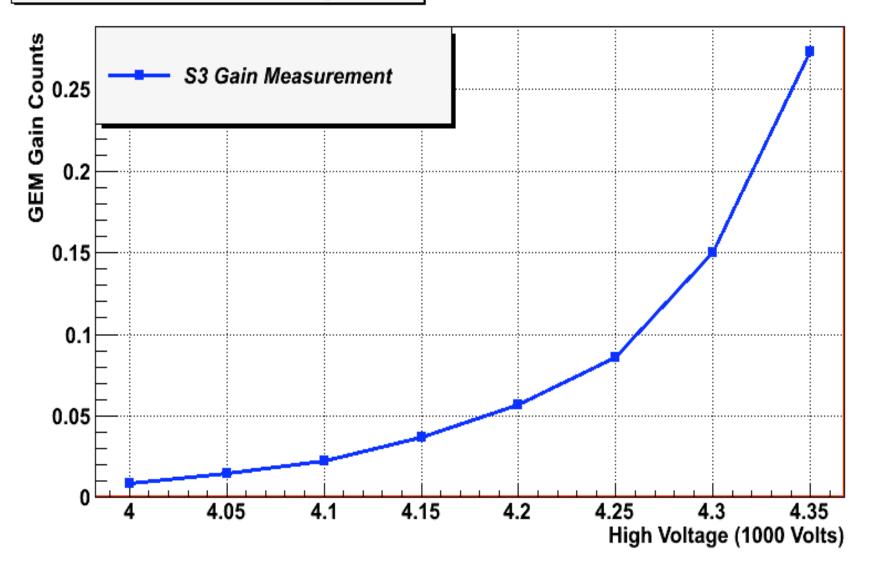
Test Beam 22

Clear correlation between the (green) signal from the GEM trigger output and the (yellow) beam trigger (triple plastic coincidence!)

Trigger

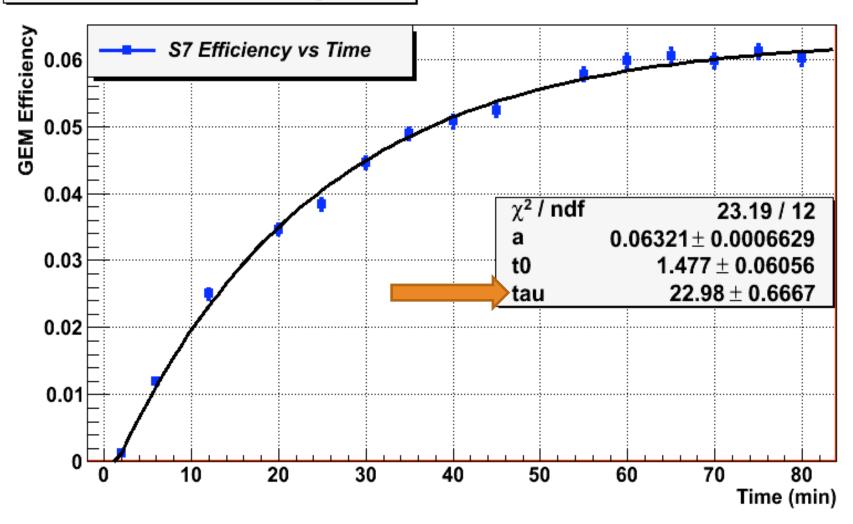
Relative Eff.: Gem Counts/Beam Counts Versus High Voltage

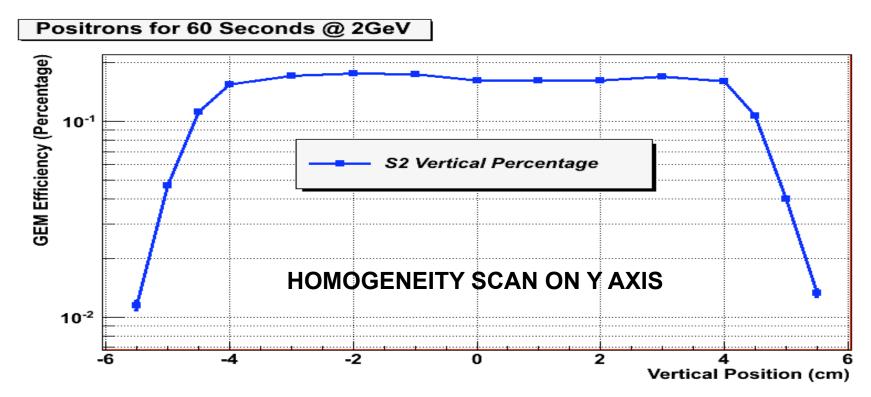


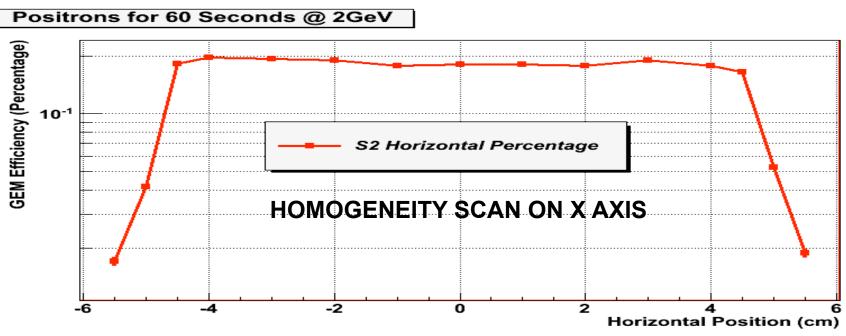


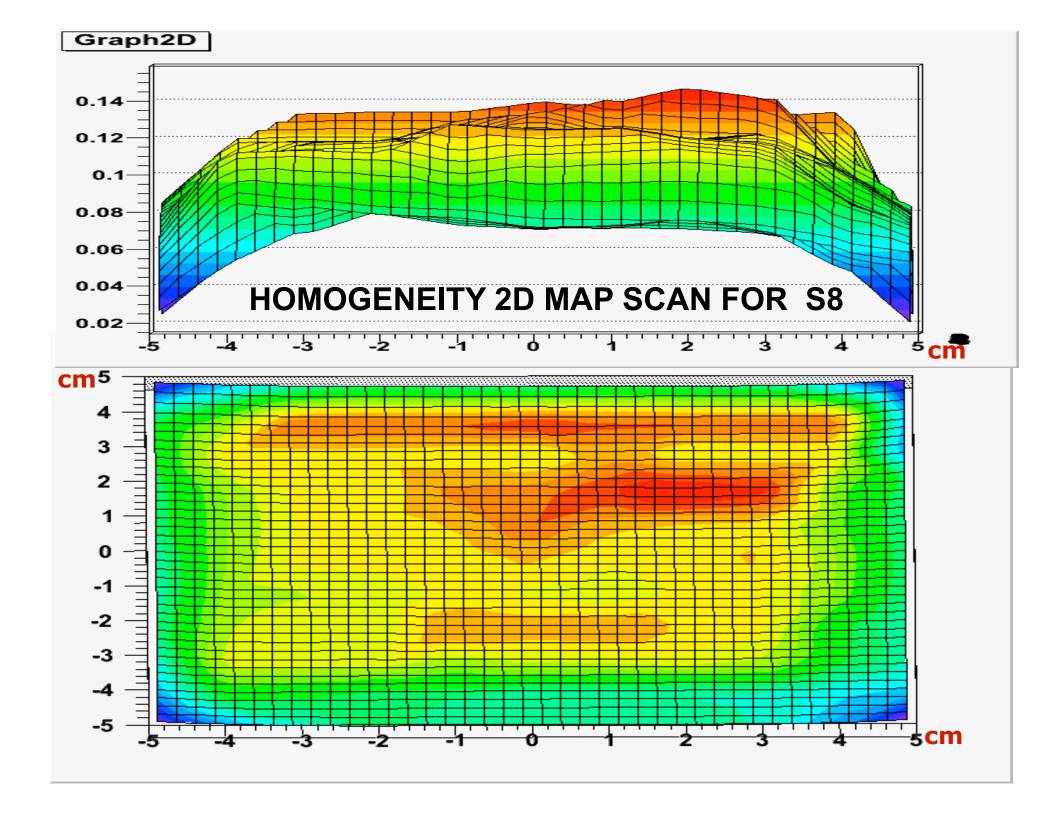
Relative Eff. Versus Time gives "Time Constant" as ~23min





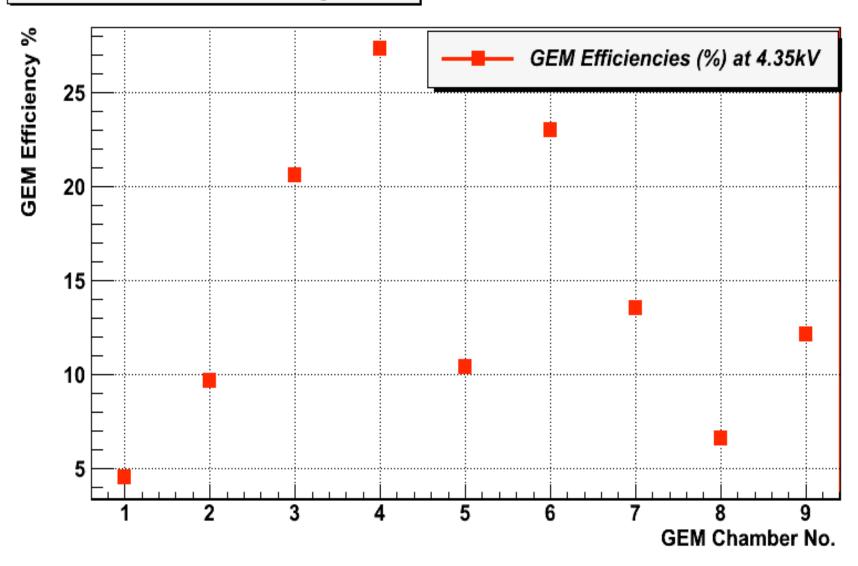






TEST RESULTS OF 9 GEM CHAMBERS

Positrons for 60 Seconds @ 2GeV

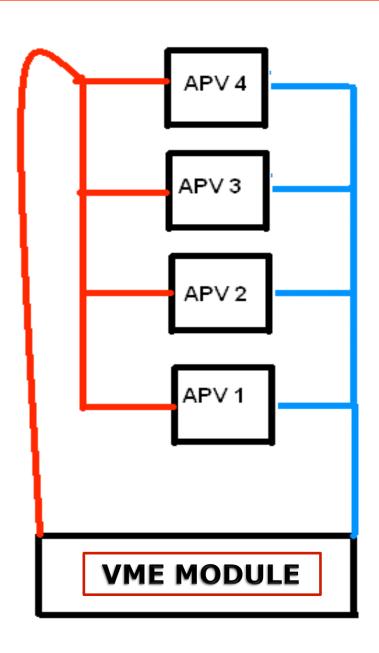


2- Test Beam with attached 4 APVs to GEM

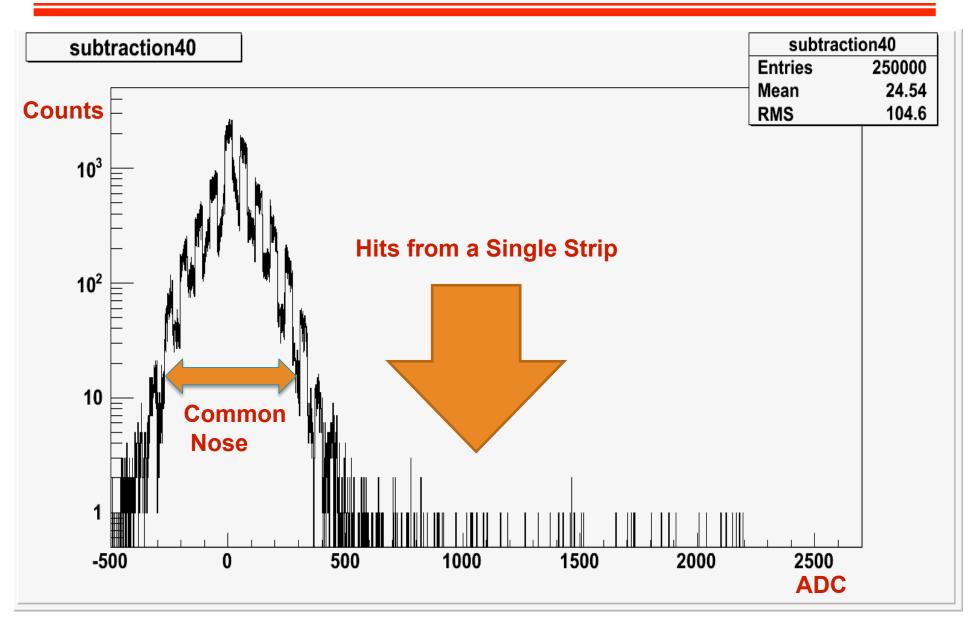
Propagation Delays between the APV Cards in Ribbon Cable compensated by adjusting the analog cables.

Clock Freq. = 40Mhz Clock Period = 25 ns

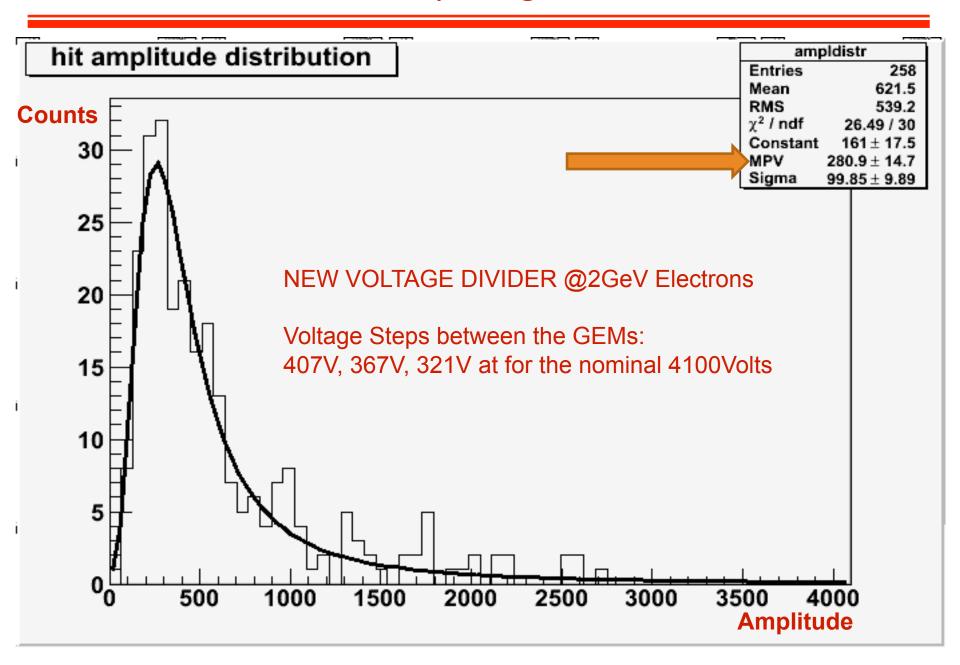




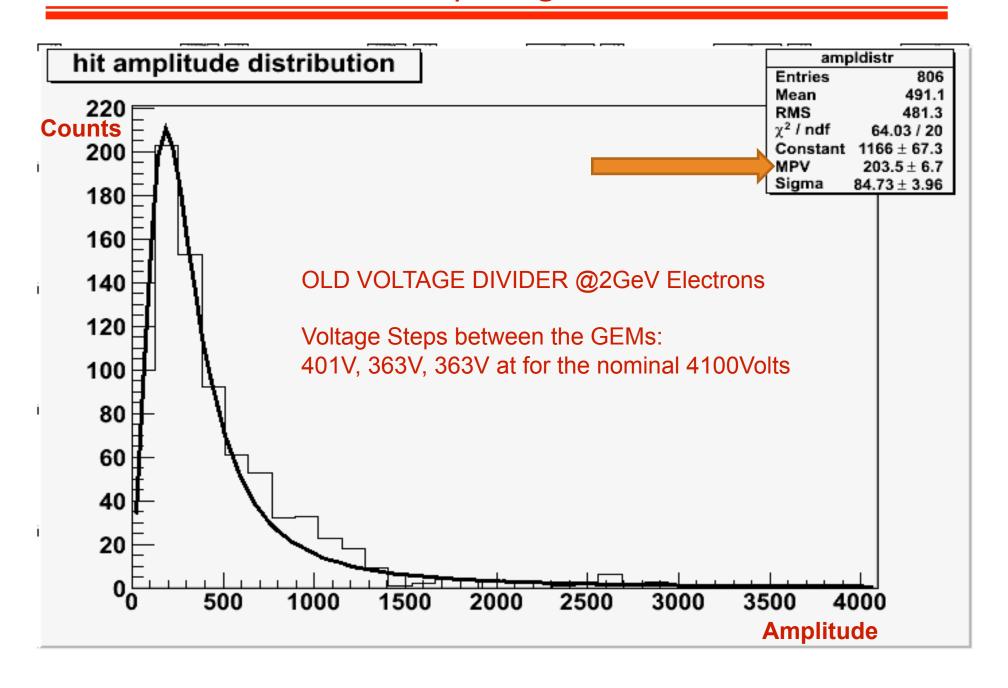
Pedestal Subtraction from Production Run for Strip 40th at 200MeV-Electrons



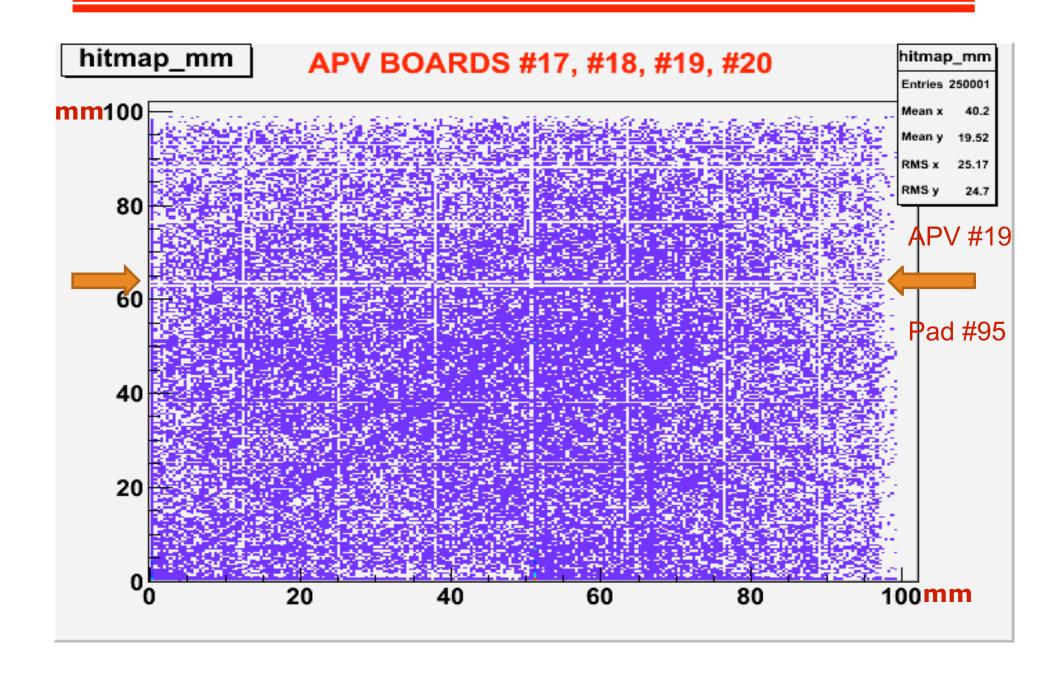
Landau Distribution by using Peak Search Method



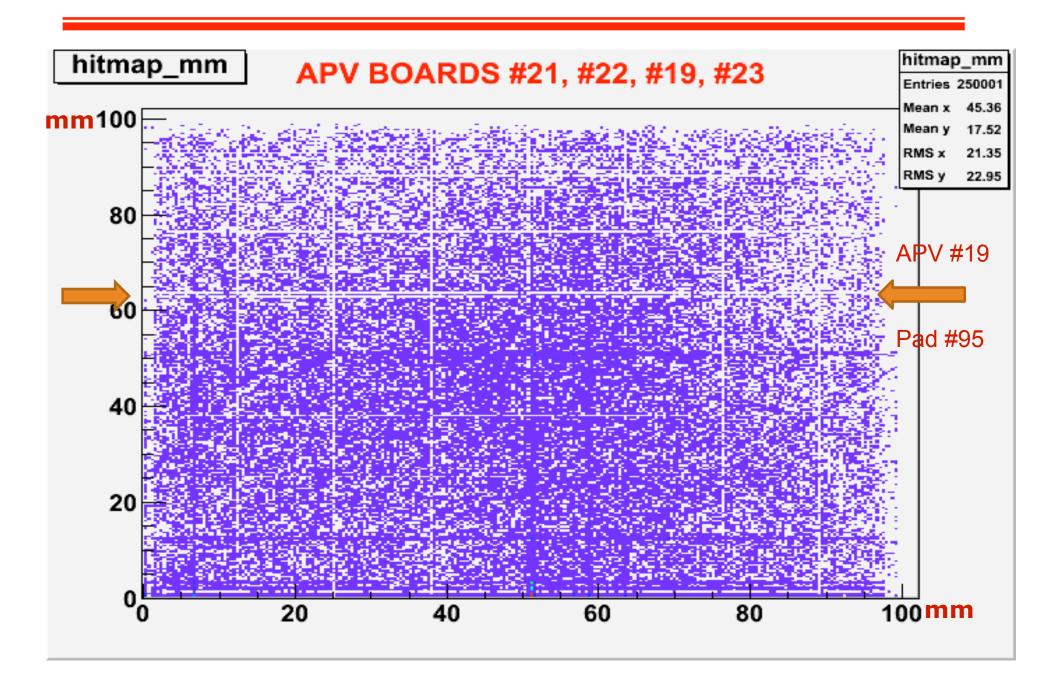
Landau Distribution by using Peak Search Method



10by10cm² -HitMap- @200MeV Electrons



10by10cm² -HitMap- @200MeV Electrons



THANKS©

