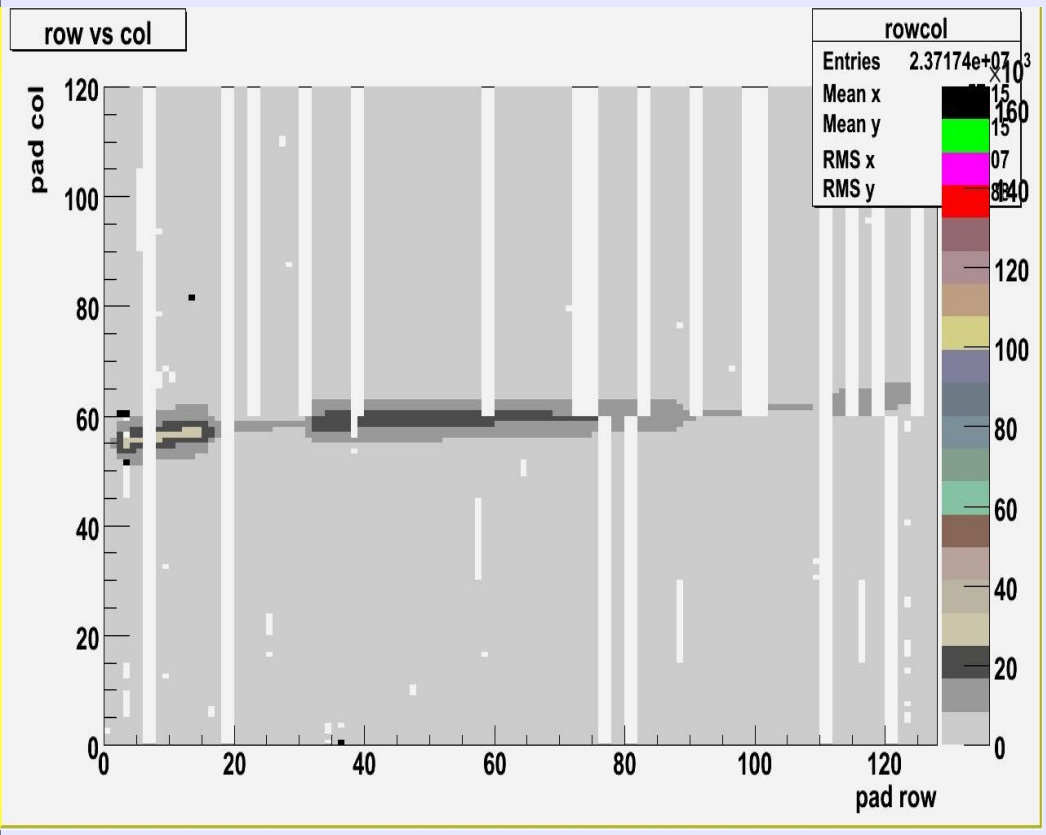
TPC Digitizer and TPC BAD Channel Table

02.22.2008

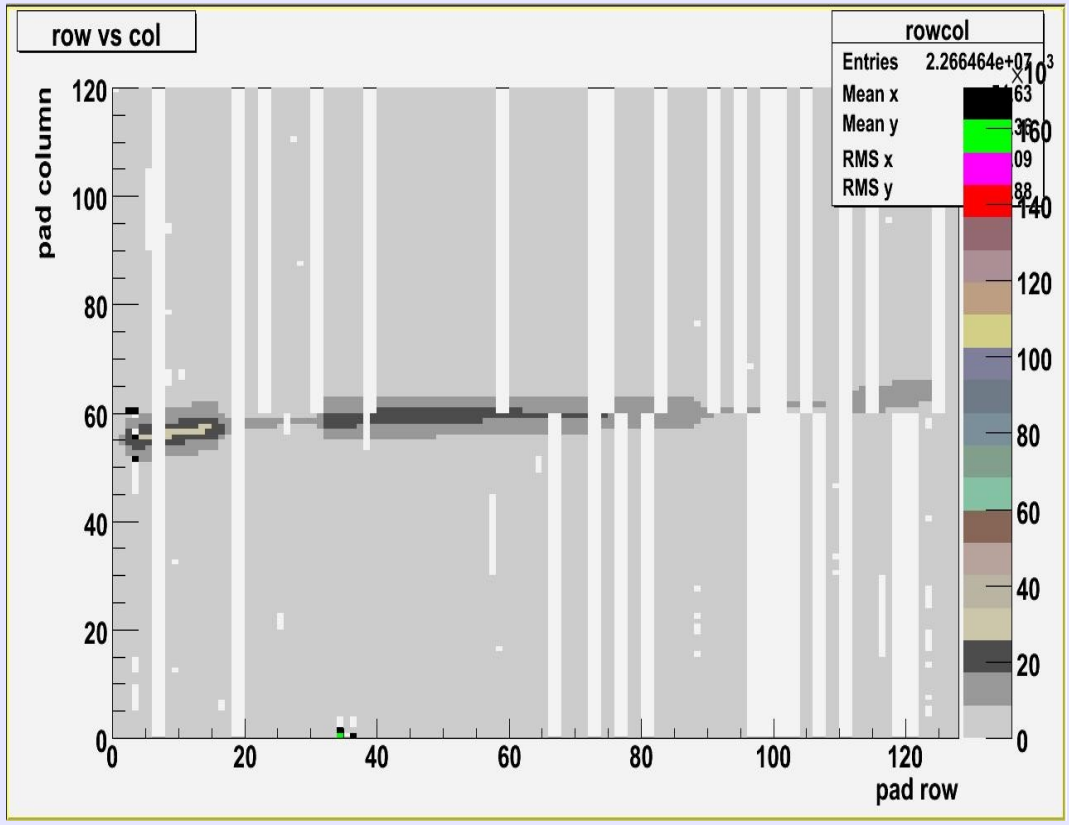
Gural Aydin

Run 15860 MC TPC Digits

MC TPC Digits for fixed dead pads(according to run number 15634)



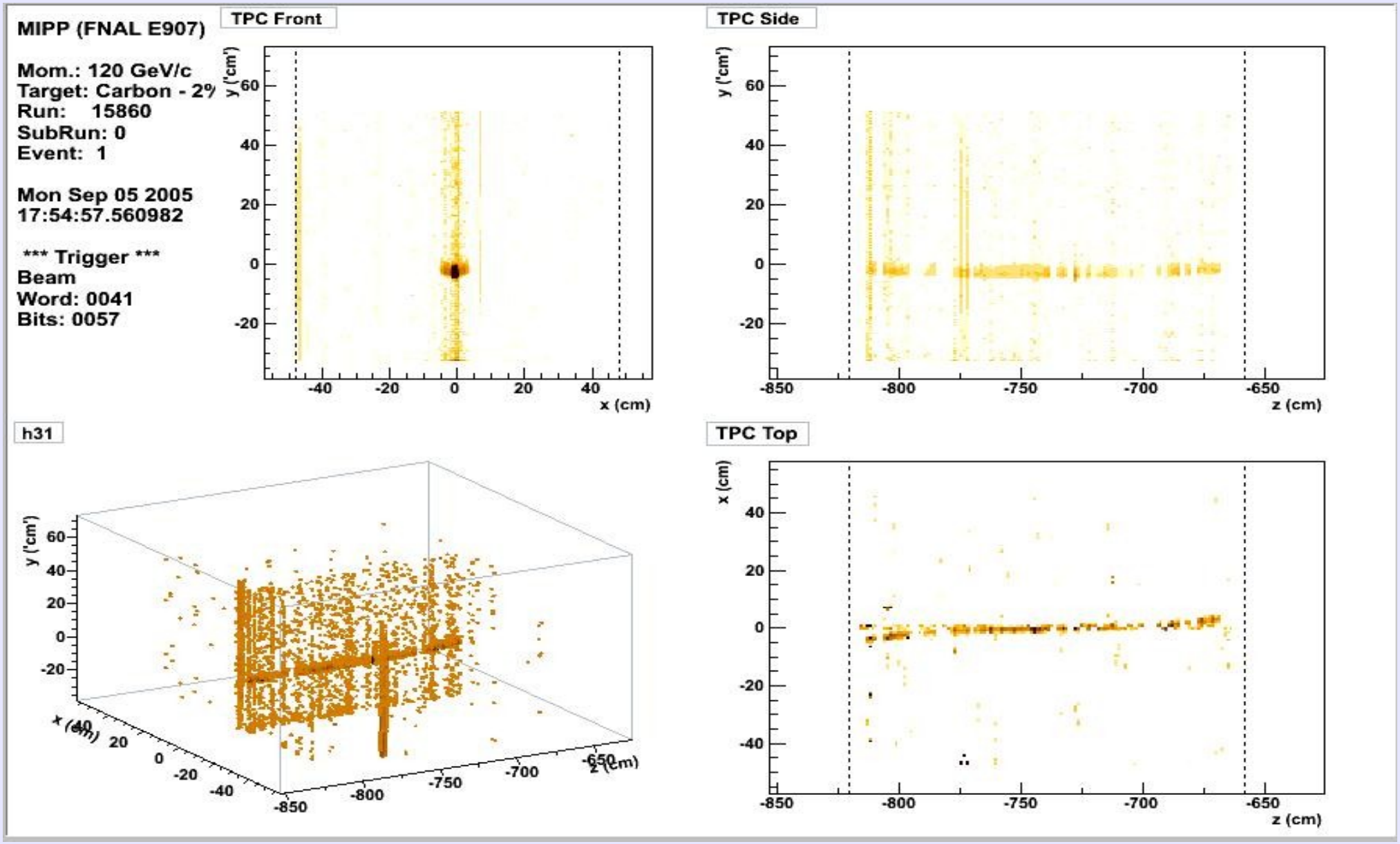
MC TPC Digits for dead pads from database for run number 15860



Dead Sticks: 6, 7, 18, 19, 23, 31, 39, 59, 73, 75, 76, 80, 83, 91, 99, 101, 110, 111, 115, 119, 120, 125
(22 dead sticks)

Dead Sticks: 6, 7, 18, 19, 23, 31, 39, 59, 66, 72, 73, 75, 76, 80, 83, 91, 95, 96, 98, 99, 100, 101, 102, 105, 106, 110, 111, 115, 118, 120, 125
(31 dead sticks)

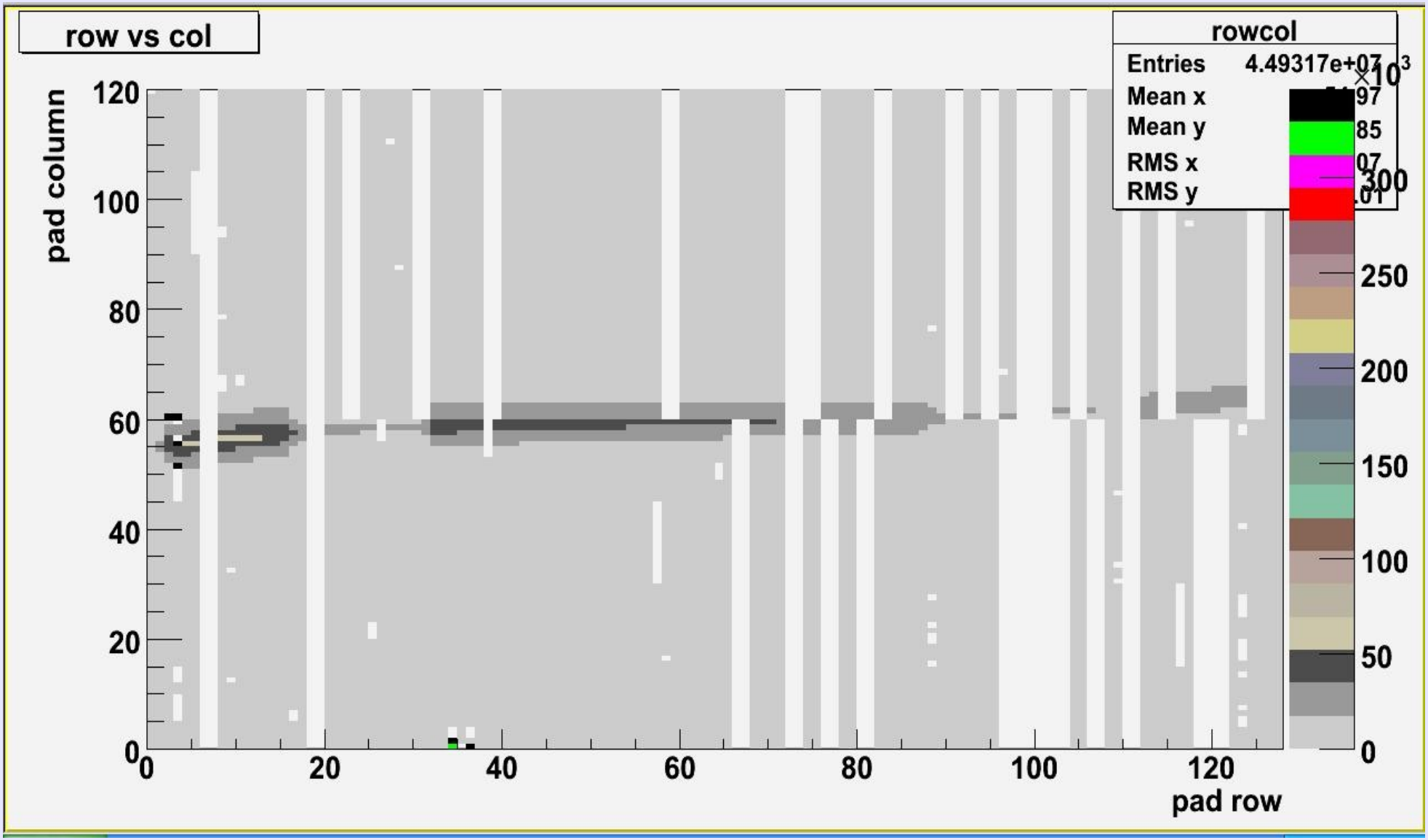
TPC Event Display run = 15860 subrun = 0



Hot Pads in database:

pad row: 2	3	3	3	34	34	36
pad col : 60	51	55	60	0	1	0

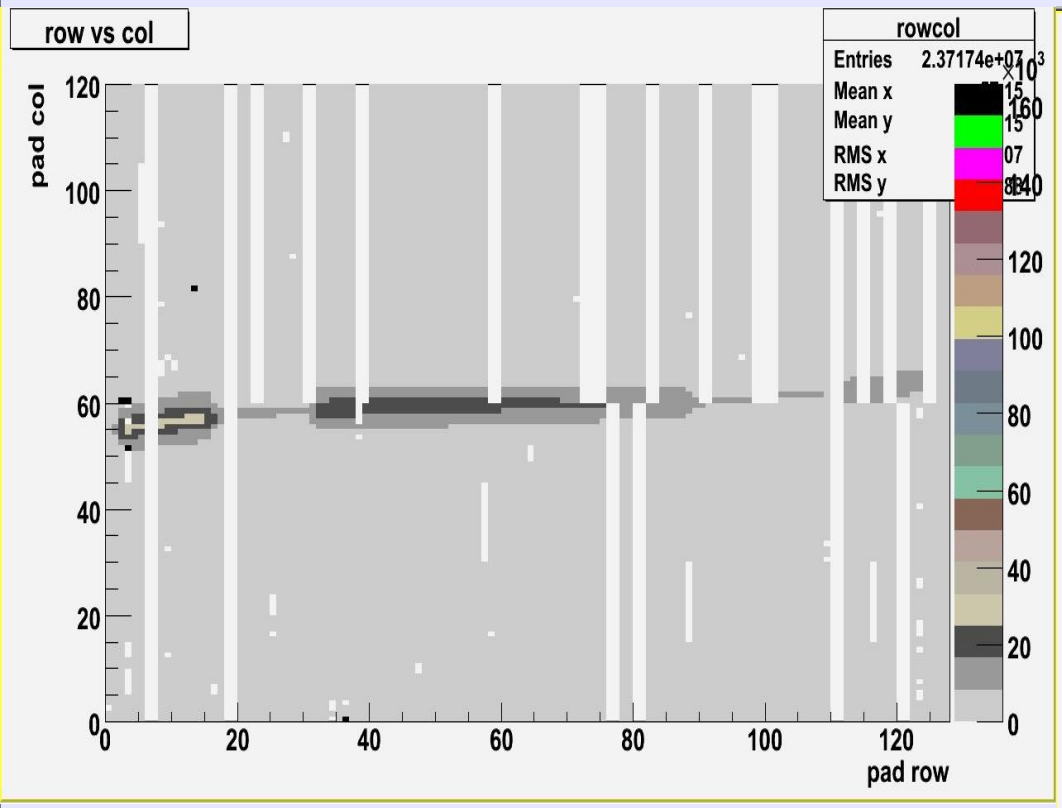
TPC MC Digits run = 15860
Dead and Hot Pads from DataBase



We can see hot pads in black and green color

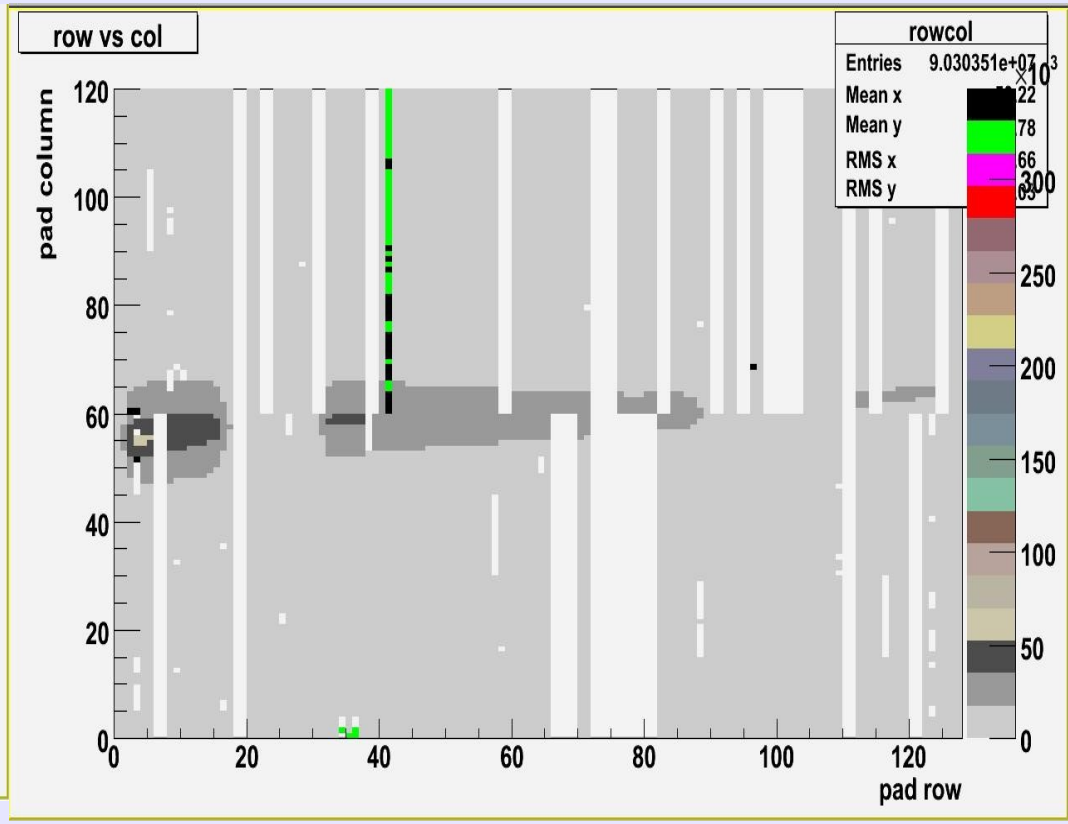
TPC Monte Carlo Digits run = 15203
120 GeV/c proton on the NuMI target

MC TPC Digits for fixed dead pads(according to the run 15634



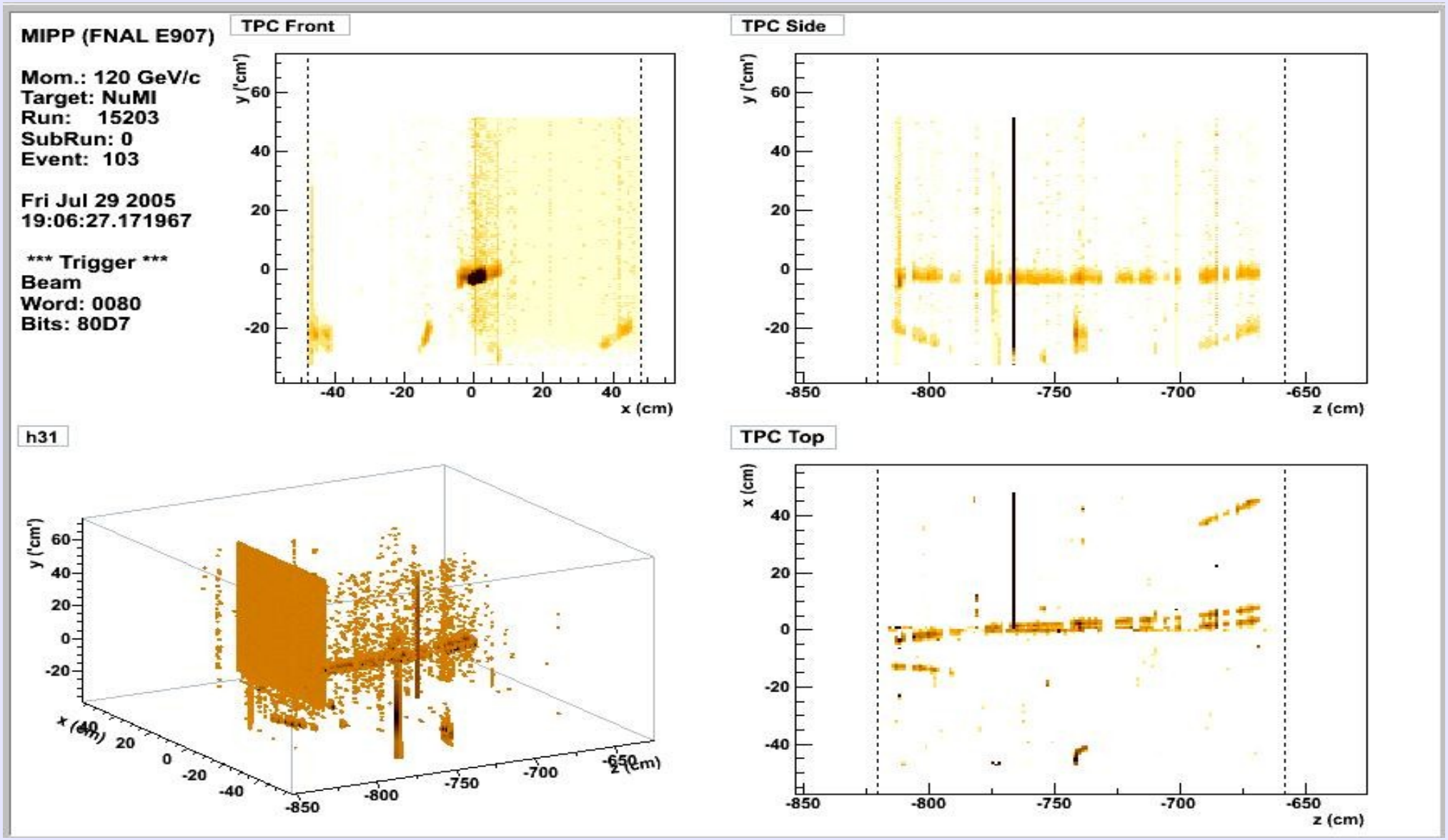
Dead Sticks: 6, 7, 18, 19, 23, 31, 39, 59, 73, 75, 76, 80, 83, 91, 99, 101, 110, 111, 115, 119, 120, 125
(22 dead sticks)

MC TPC Digits for dead pads from database for run 15203



Dead Sticks: 6, 8, 19, 23, 31, 39, 59, 66, 68, 72, 73, 74, 75, 76, 78, 80, 83, 91, 95, 99, 101, 103, 110, 111, 115, 120, 125
(27 dead sticks)

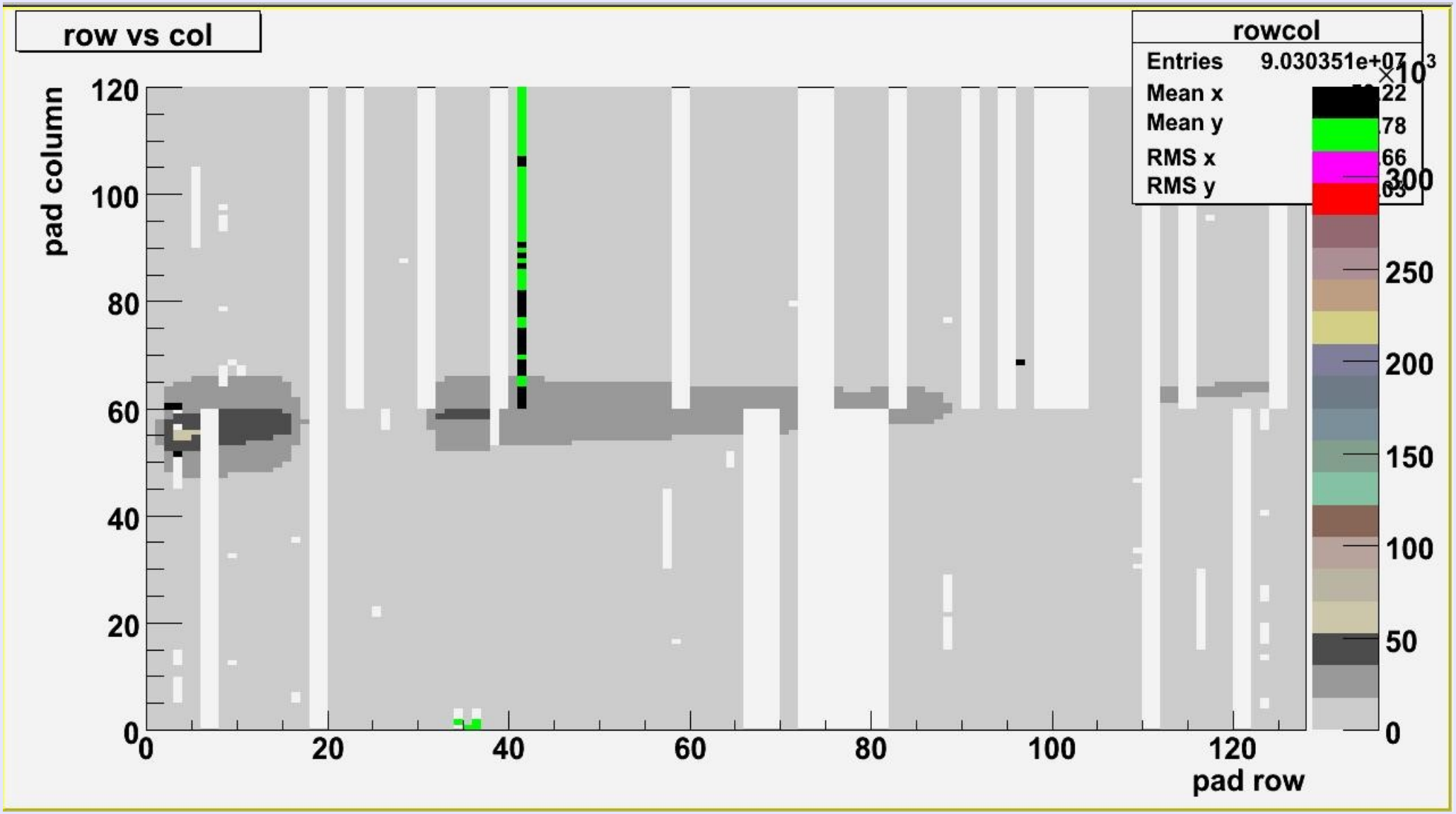
TPC Event Display run = 15203 subrun =0
120 GeV/c proton on NuMI target



Hot Pads in database:

Pad row :	2	3	3	34	35	36	36	41	96
Pad col :	60	51	60	1	0	0	1	60-119	68

TPC MC Digits run = 15203
Dead and Hot Pads from DataBase



We can see hot pads in black and green color

SUMMARY

-Now, TPCDigitizer module reads hot and dead pads from tpcbadchan table.

-The module adds pedestal ADC values to the digits in the hot pads

-If hits are on the dead pads, they do not create digits.