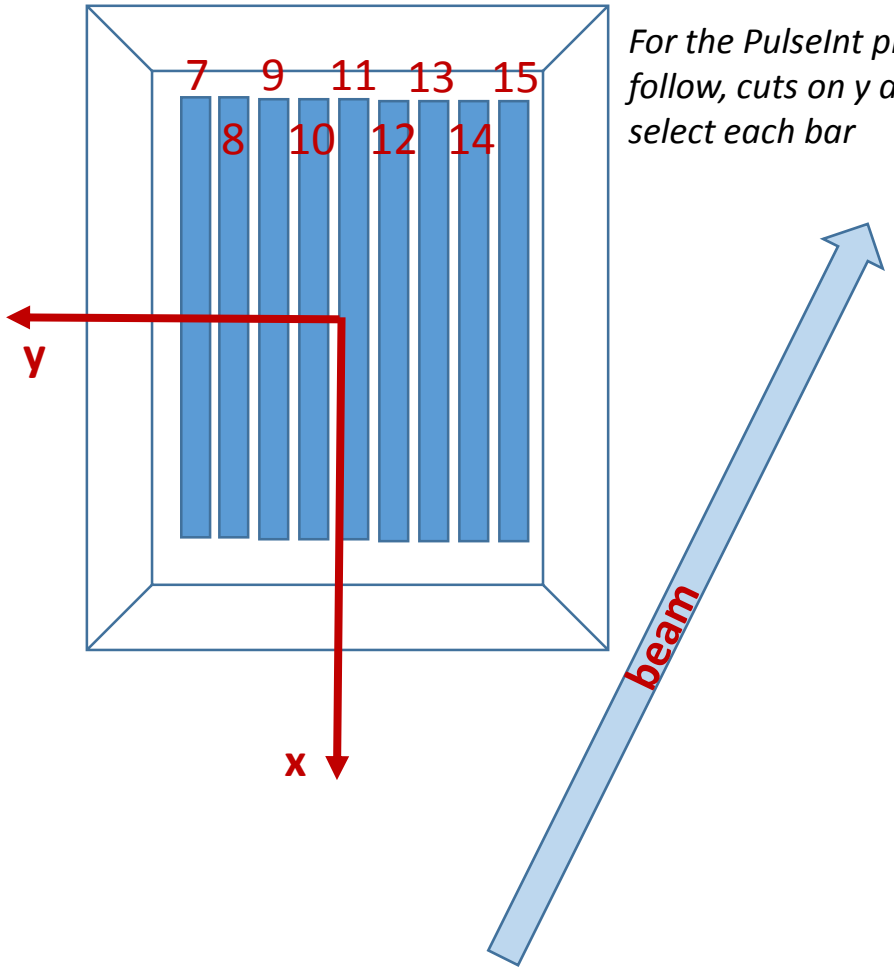
SHMS Quartz Plane: Analysis of Beam Data (Spring 17)
Preliminary-v0 March 16 1017

S. Malace

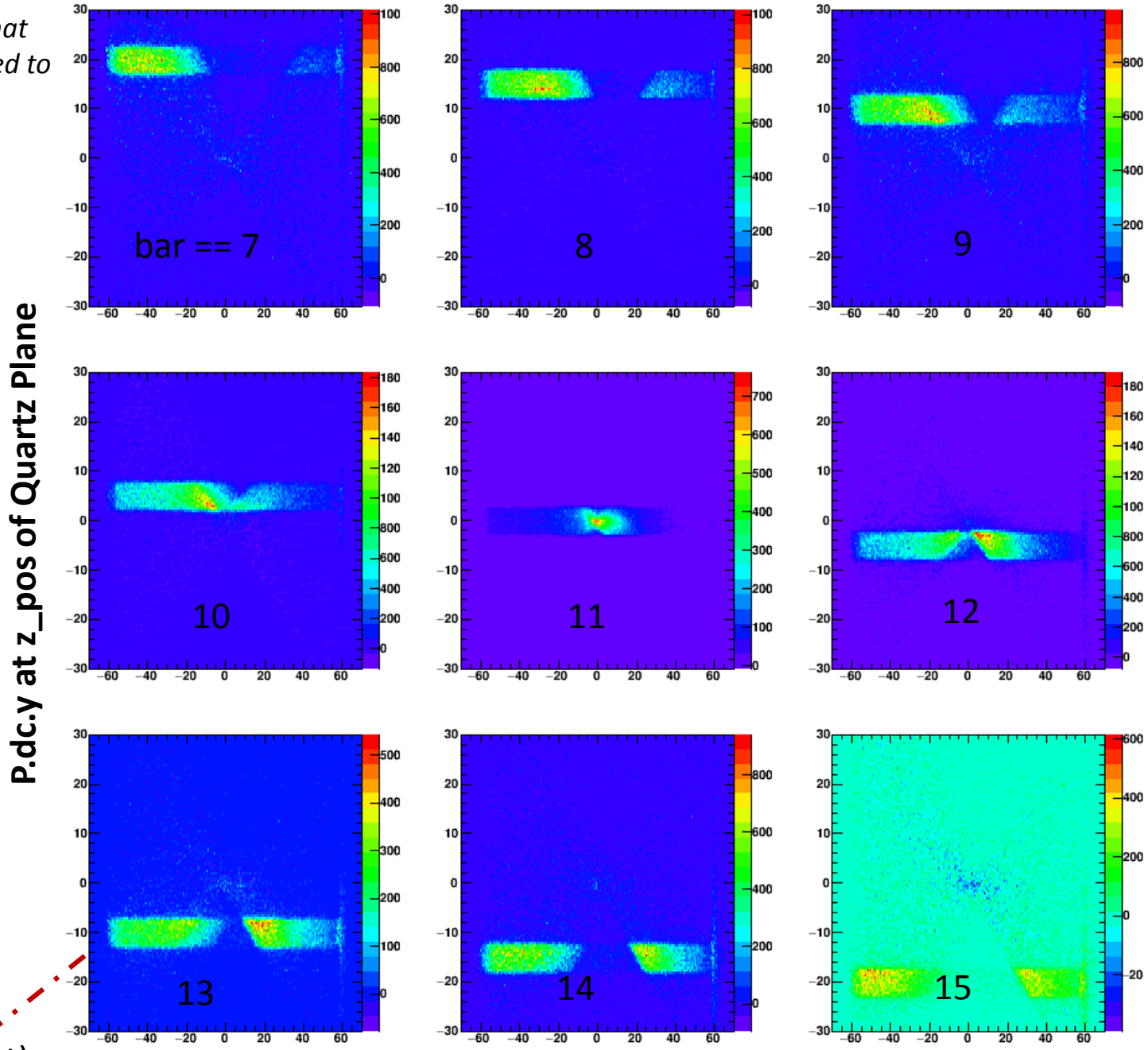


For the PulseInt plots that follow, cuts on y are used to select each bar

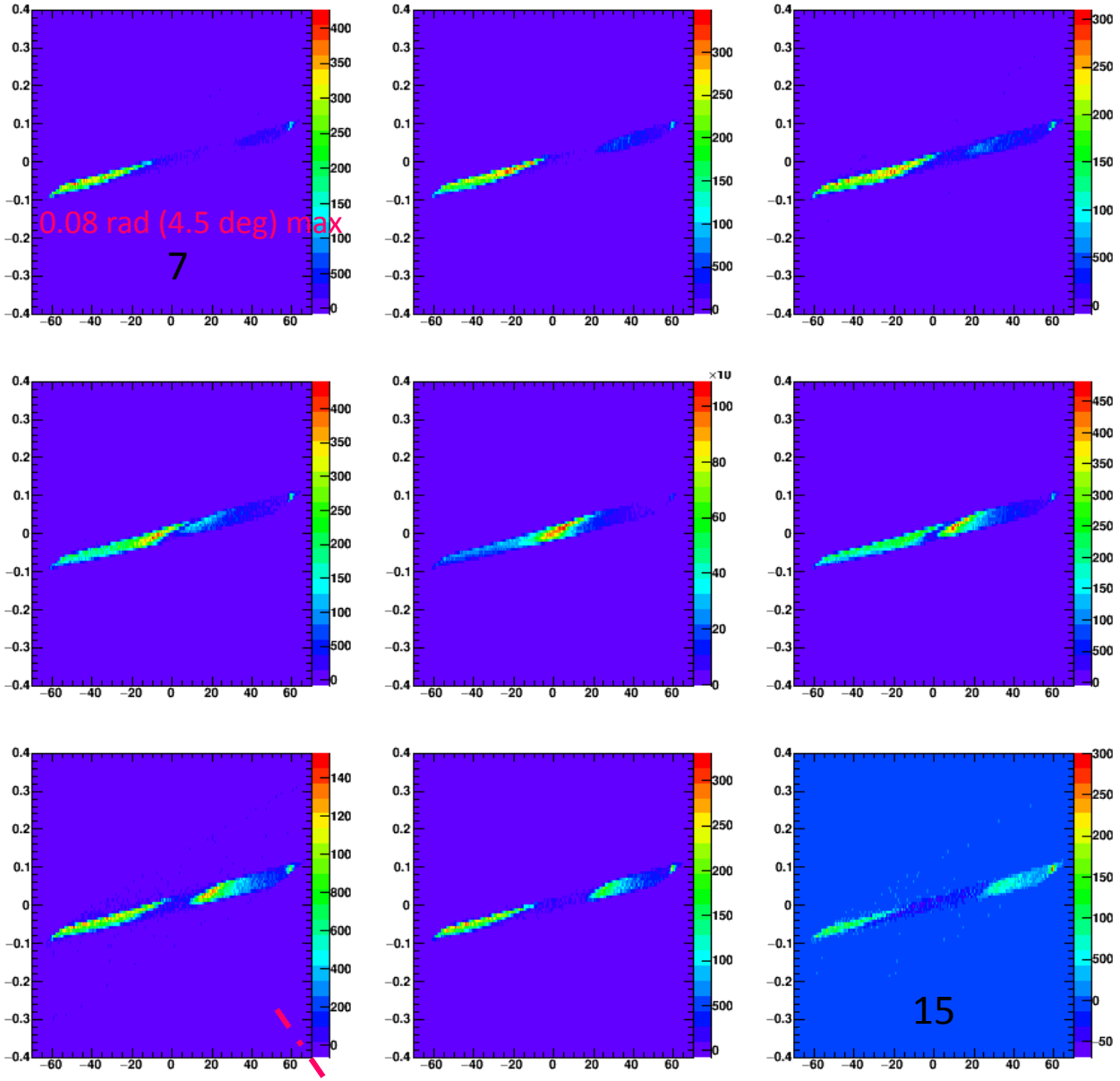
P.dc.y at z_pos of Quartz Plane = yis = track_y[0] + track_yp[0] * 276.35

P.dc.x at z_pos of Quartz Plane = xis = track_x[0] + track_xp[0] * 276.35

Histogram for bar 13: histo->Fill(xis,yis,NegPulseInt)

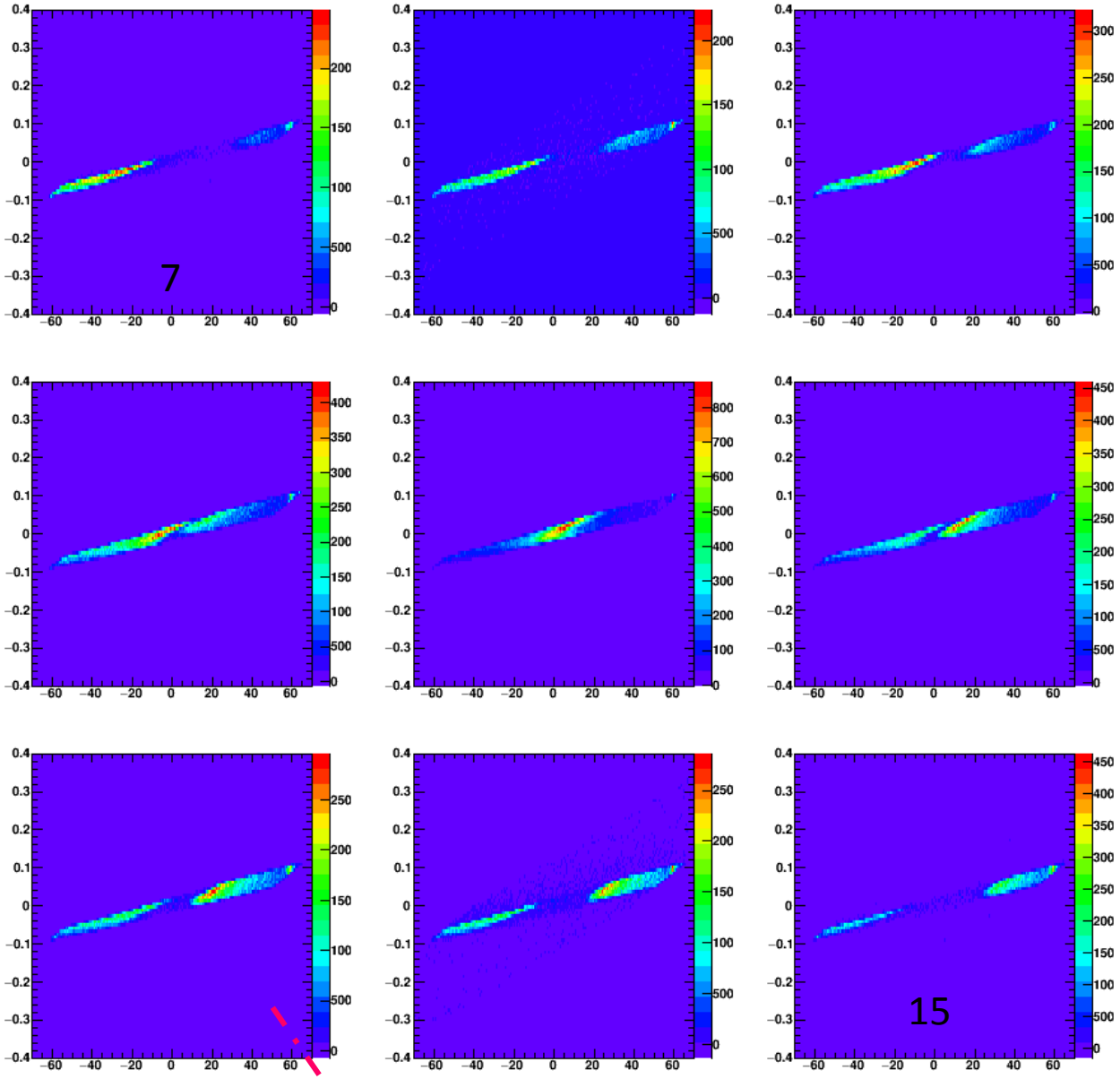


P.dc.xp vs (P.dc.x at z_pos = 276.25) as seen by Neg PMTs



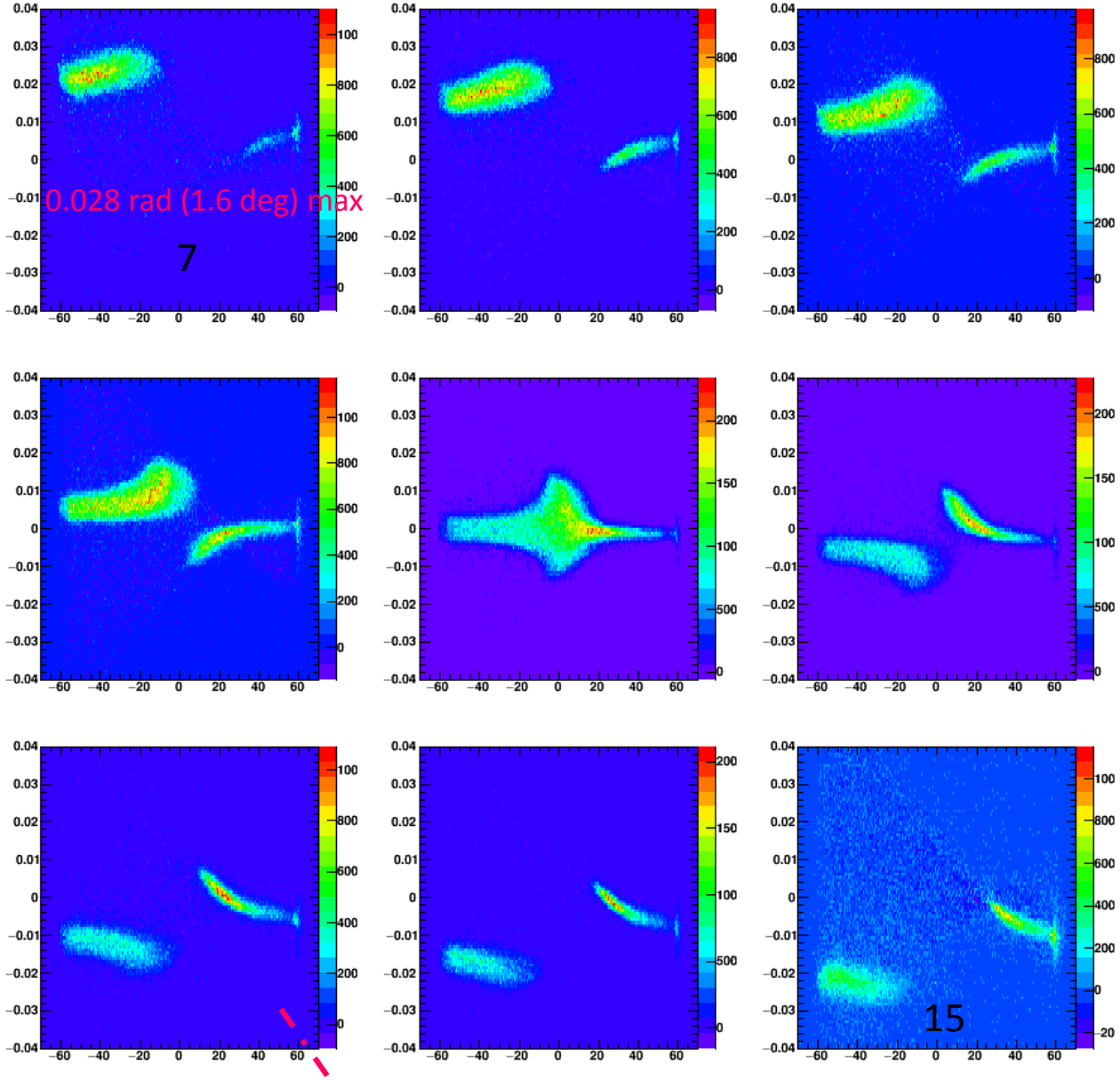
Histogram for bar 13: histo->Fill(xis,track_xp[0],NegPulseInt)

P.dc.xp vs (P.dc.x at z_pos = 276.25) as seen by Pos PMTs



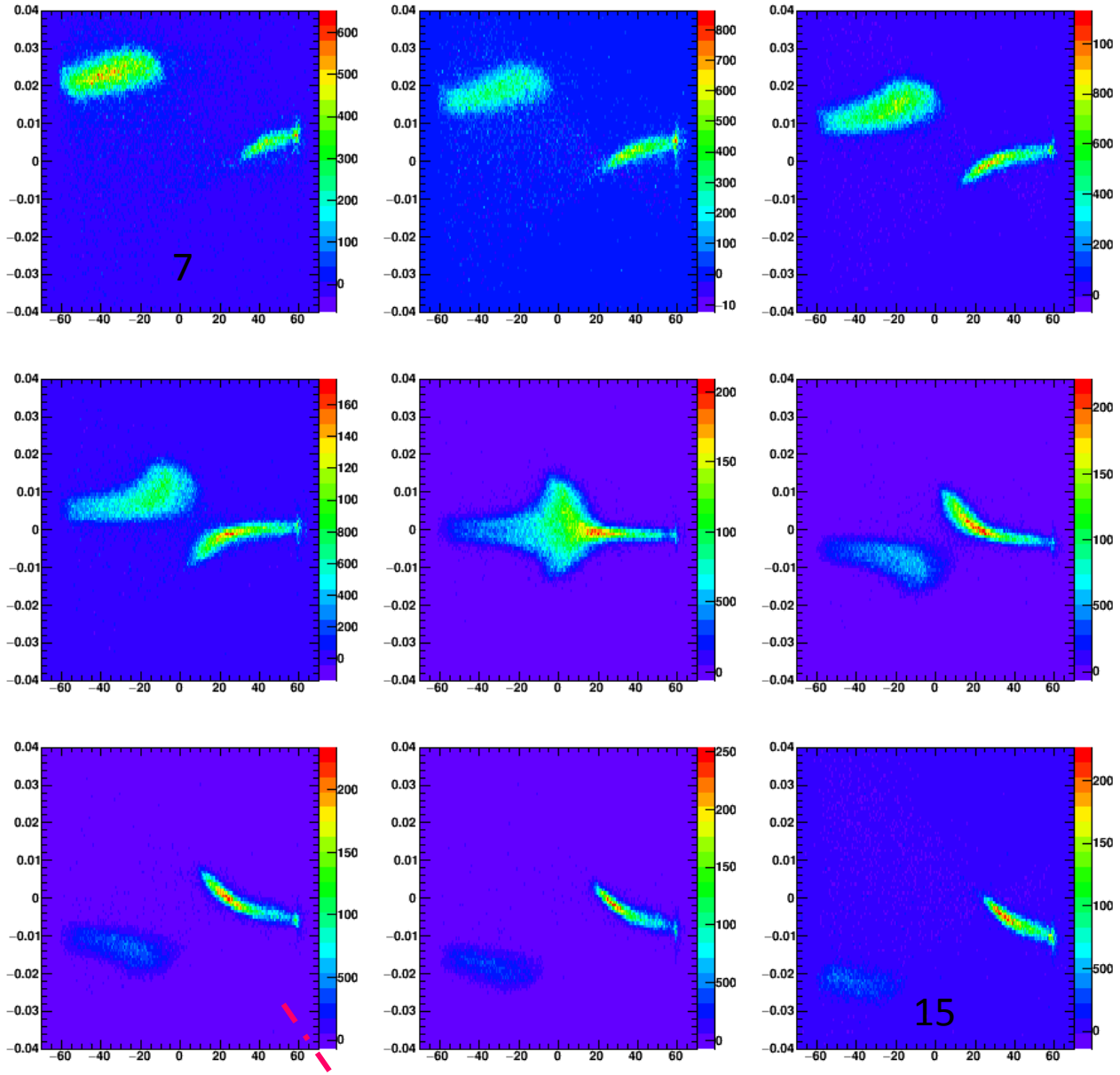
Histogram for bar 13: histo->Fill(xis,track_xp[0],PosPulseInt)

P.dc.yp vs (P.dc.x at z_pos = 276.25) as seen by Neg PMTs



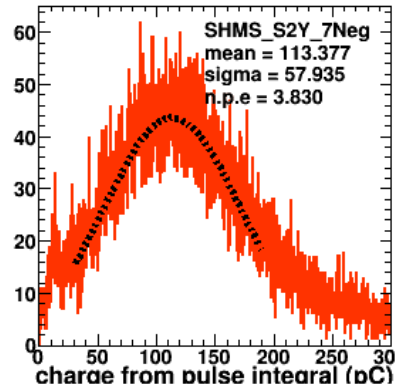
Histogram for bar 13: histo->Fill(xis,track_yp[0],NegPulseInt)

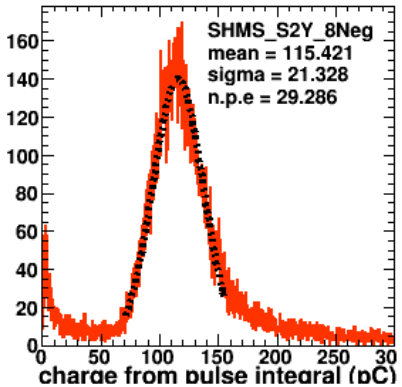
P.dc.yp vs (P.dc.x at z_pos = 276.25) as seen by Pos PMTs

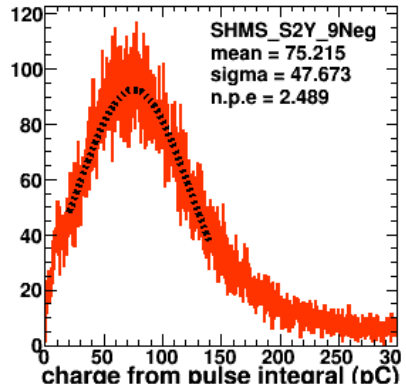


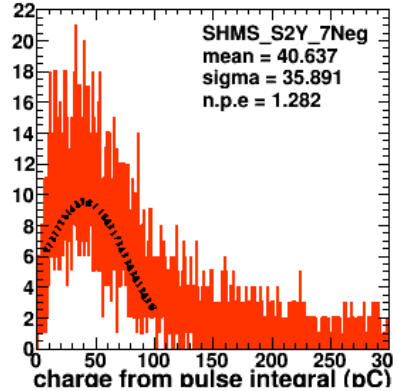
Histogram for bar 13: histo->Fill(xis,track_yp[0],PosPulseInt)

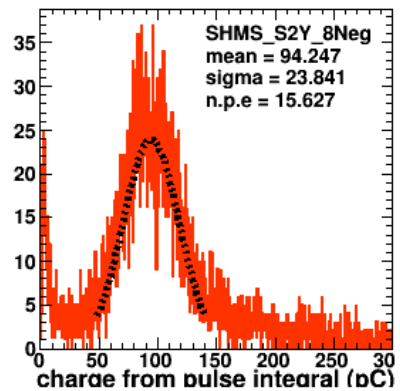
Response (Pulse Integral) from Negative PMTs (Top PMTs)

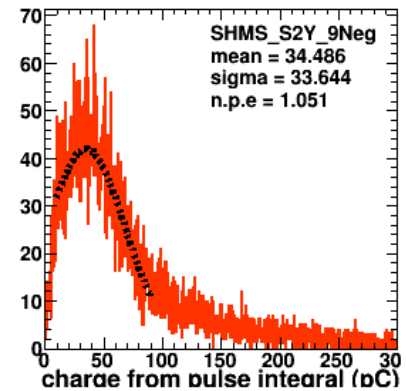


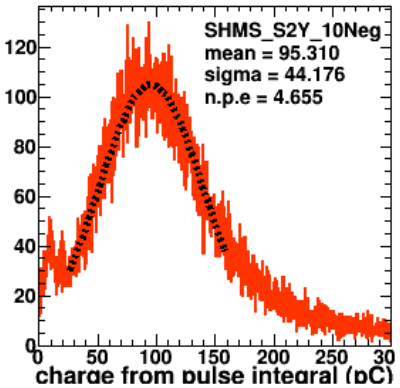


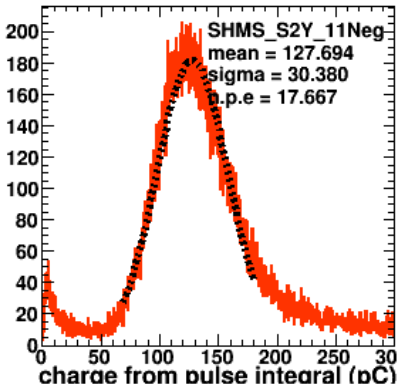


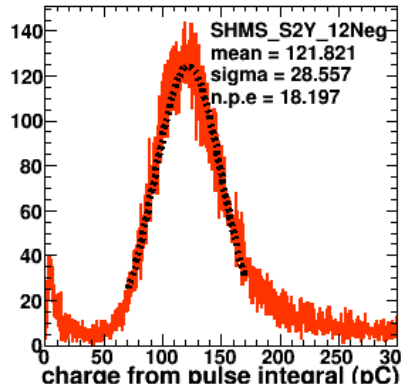


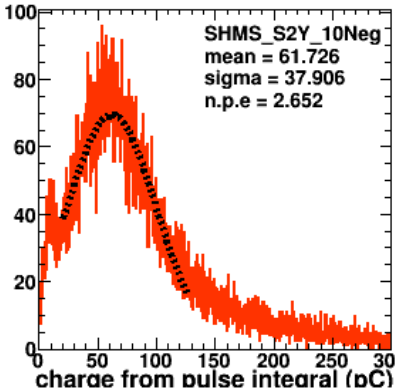


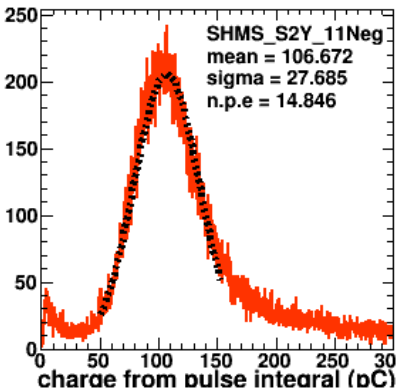


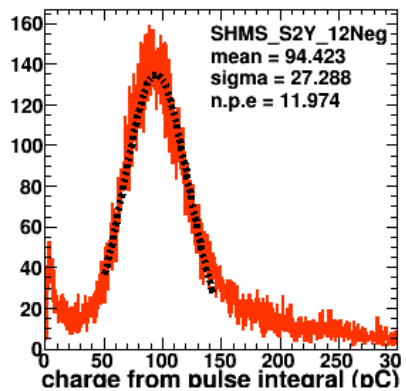


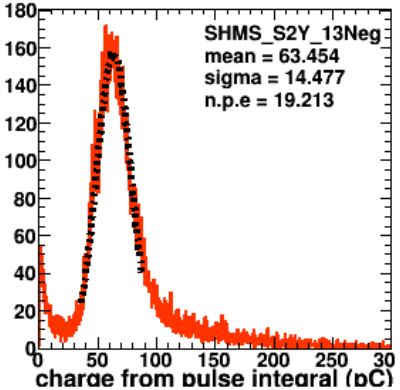


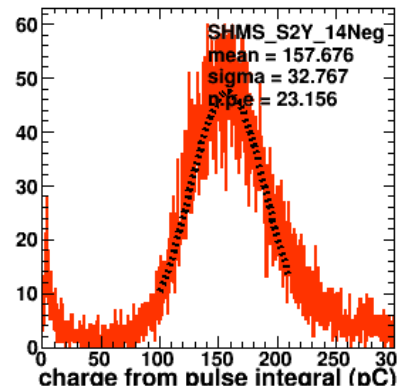


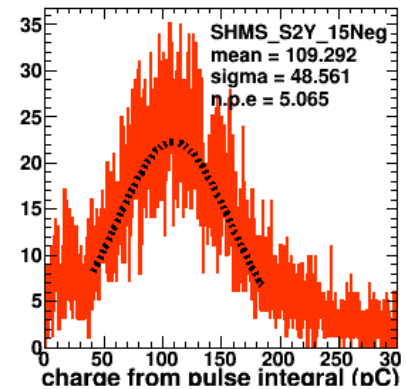


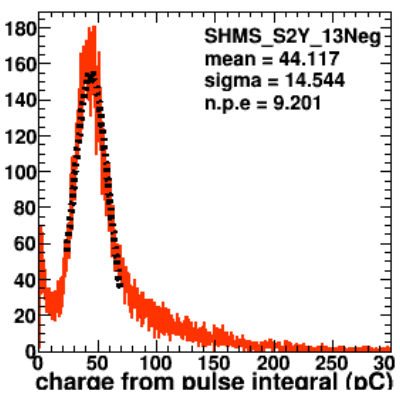


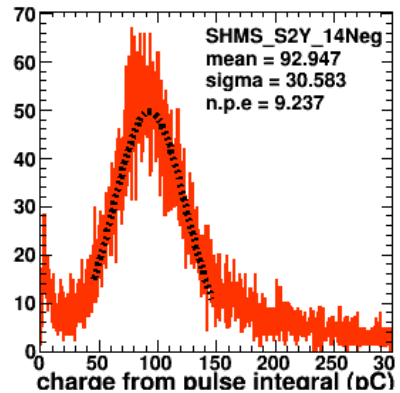


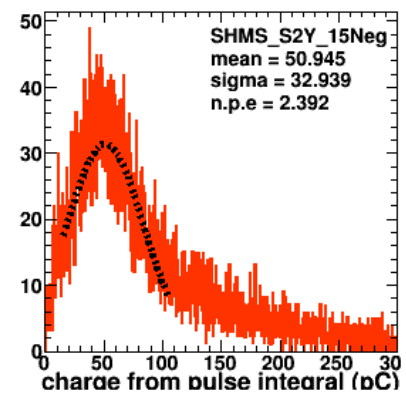








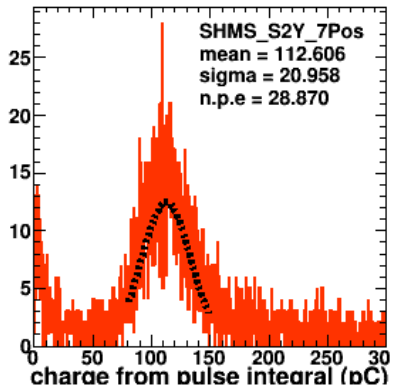


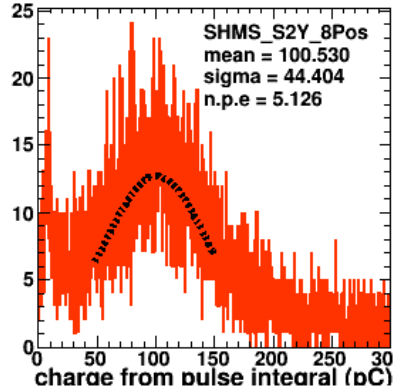


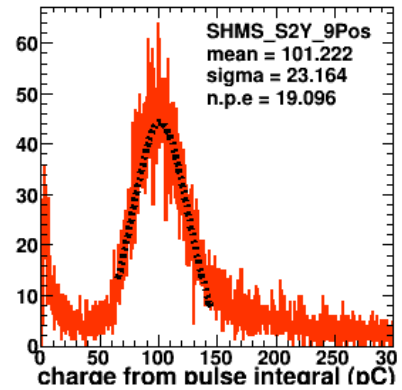
Angle of incidence (in xz plane mostly) favors more photons on Negative (Top) PMTs when x < 0

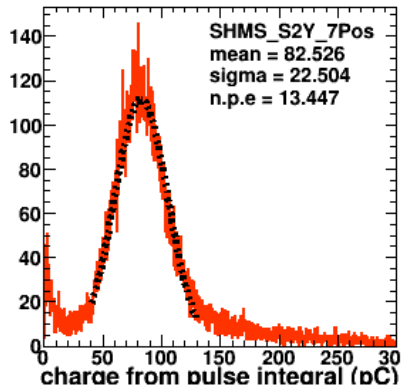
Angle of incidence (in xz plane mostly) favors less photons on Negative (Top) PMTs when x > 0

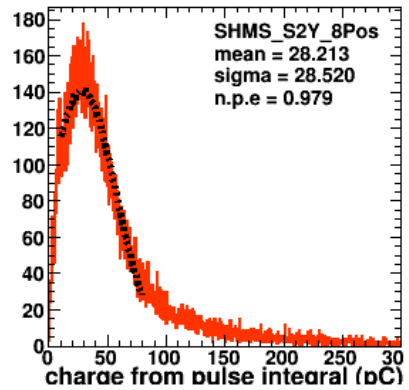
Response (Pulse Integral) from Positive PMTs (Bottom PMTs)

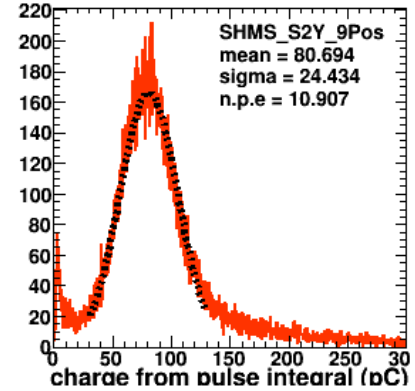


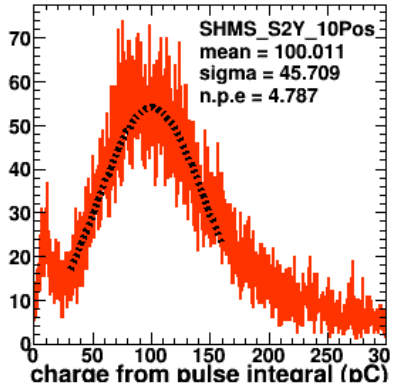


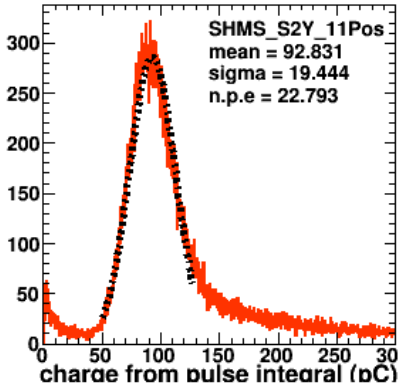


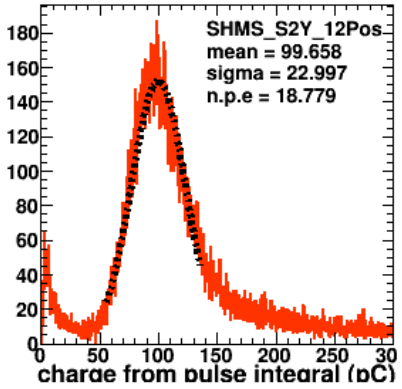


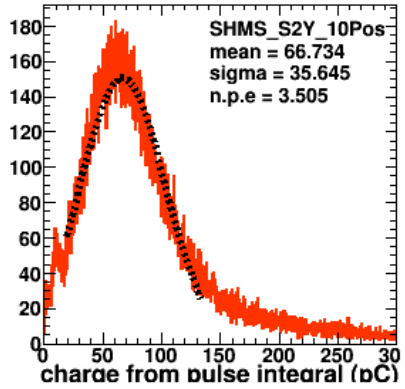


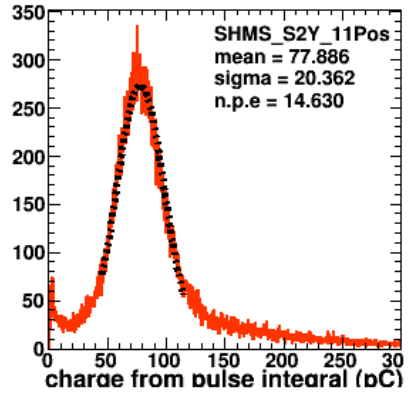


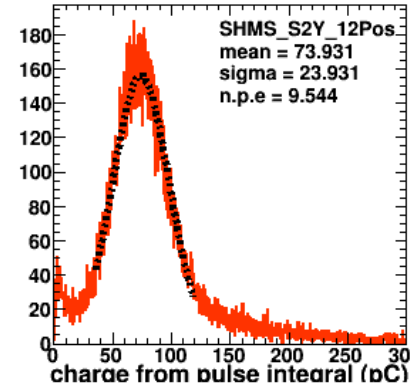


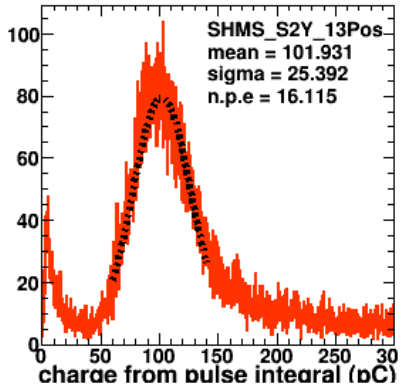


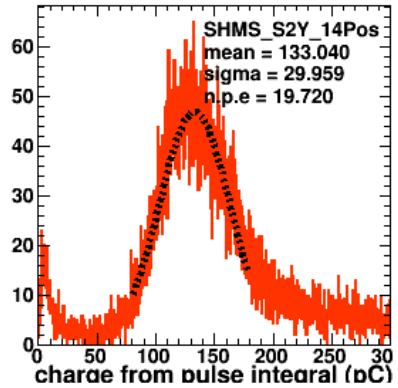


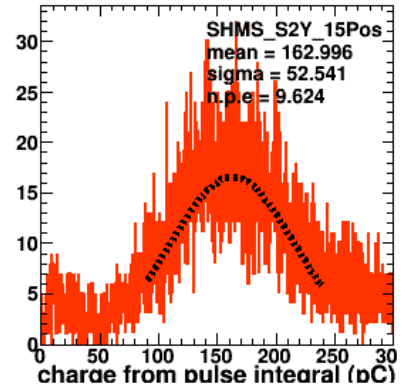


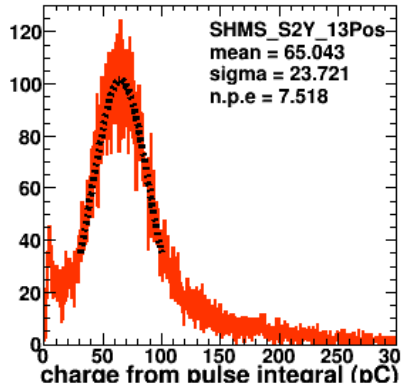


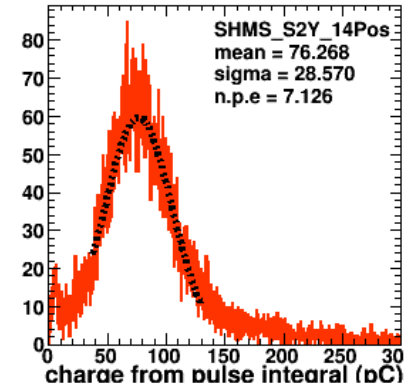


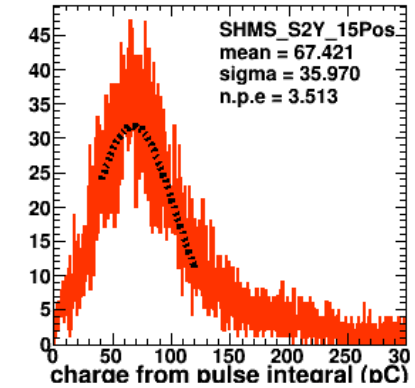












Angle of incidence (in xz plane mostly) favors more photons on Positive (Bottom) PMTs when x > 0

Angle of incidence (in xz plane mostly) favors less photons on Positive (Bottom) PMTs when x < 0