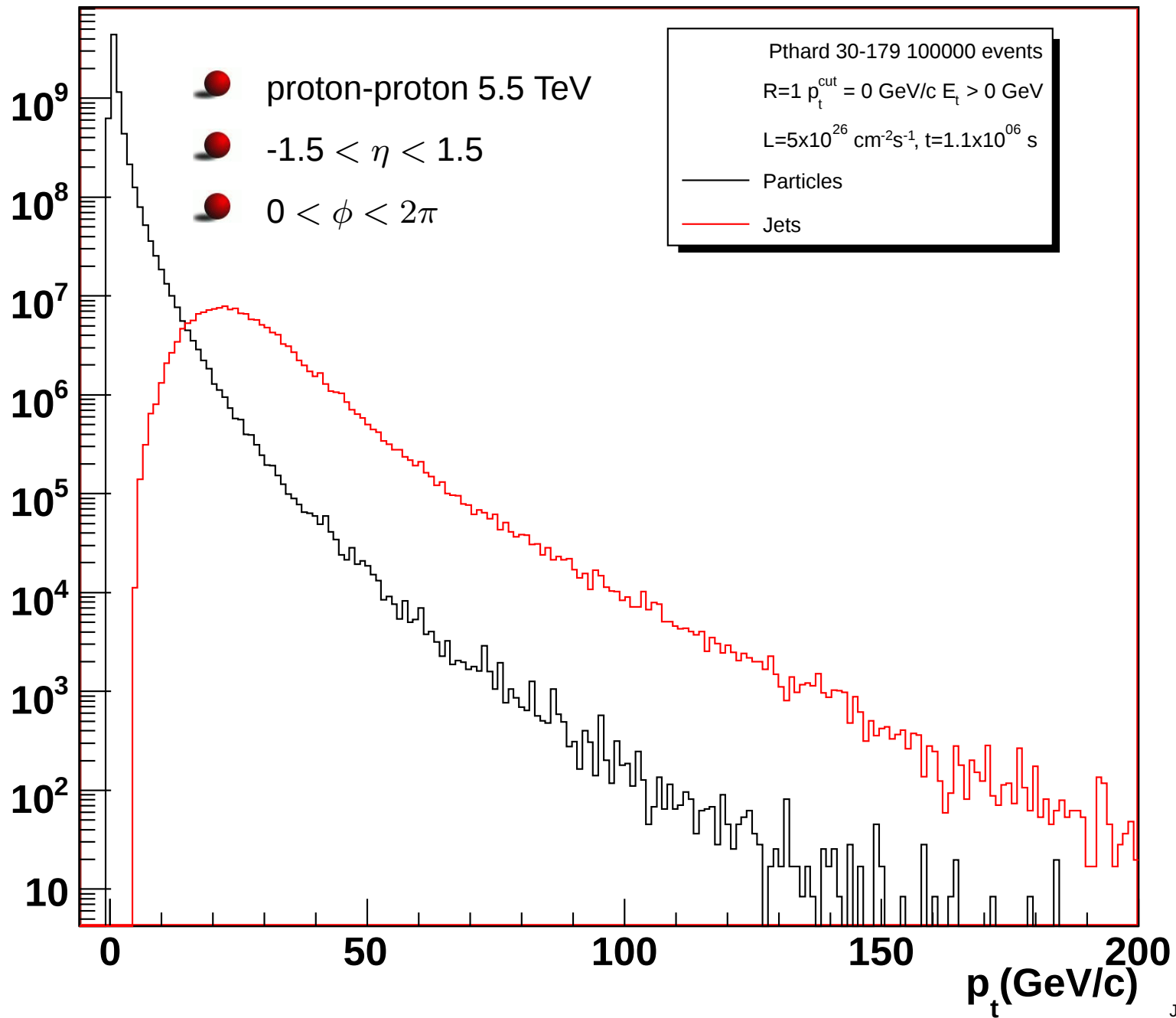


Jets Analysis

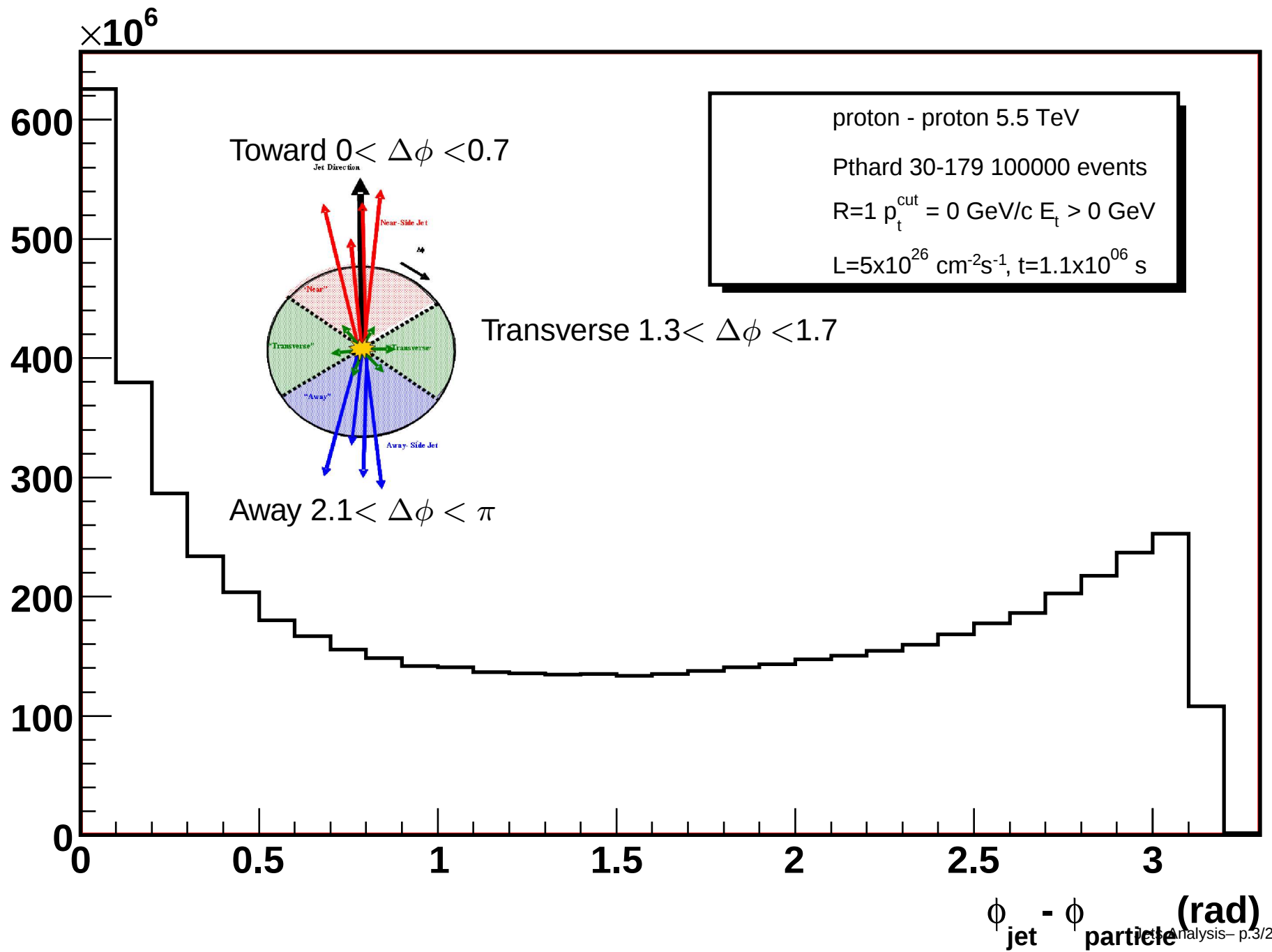
Isabel Domínguez Jiménez

14 de junio 2007

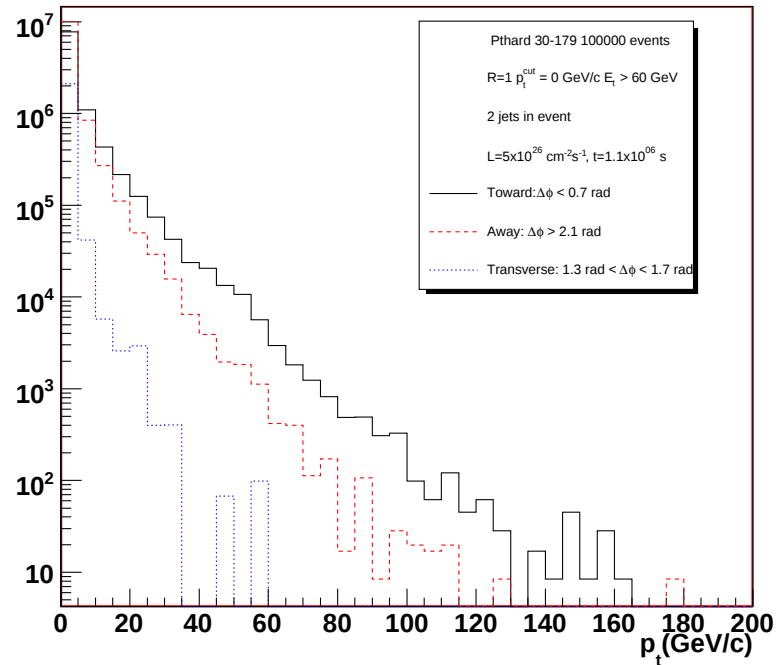
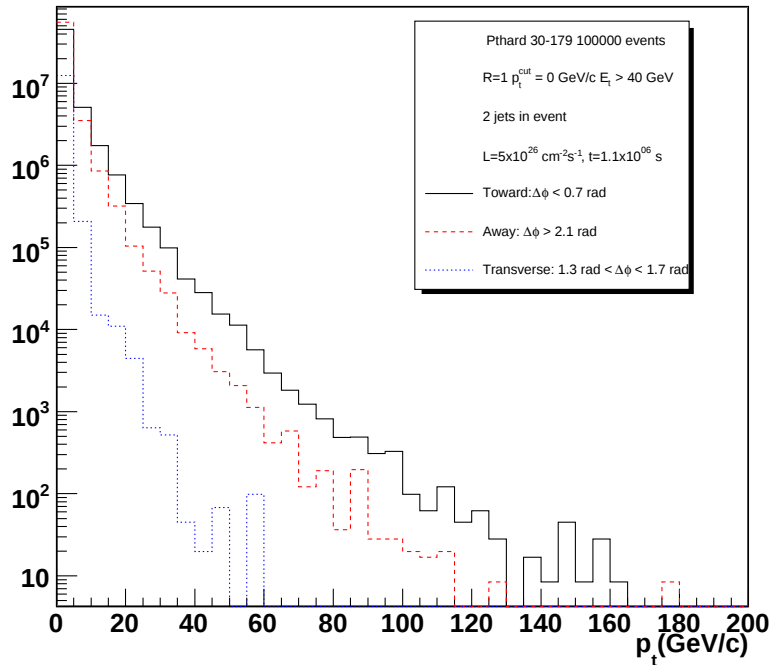
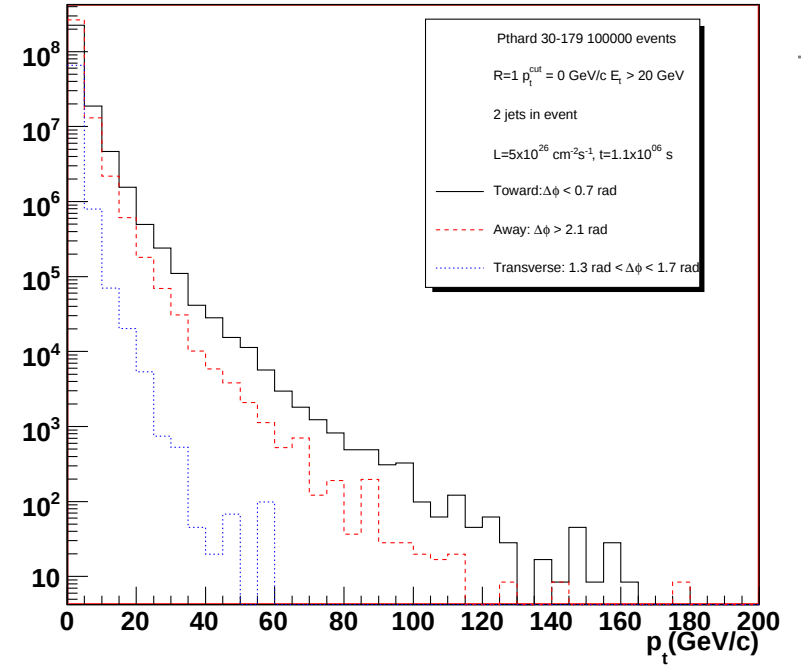
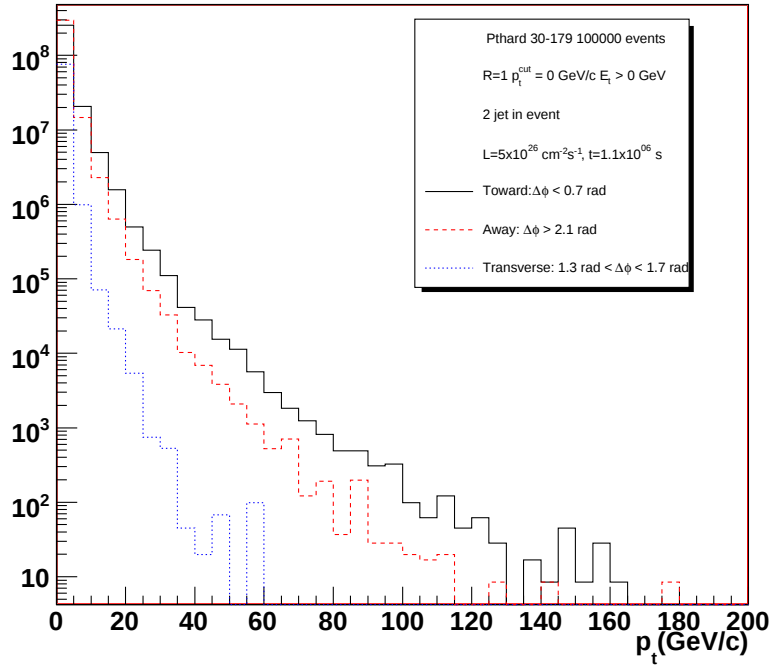
Jets



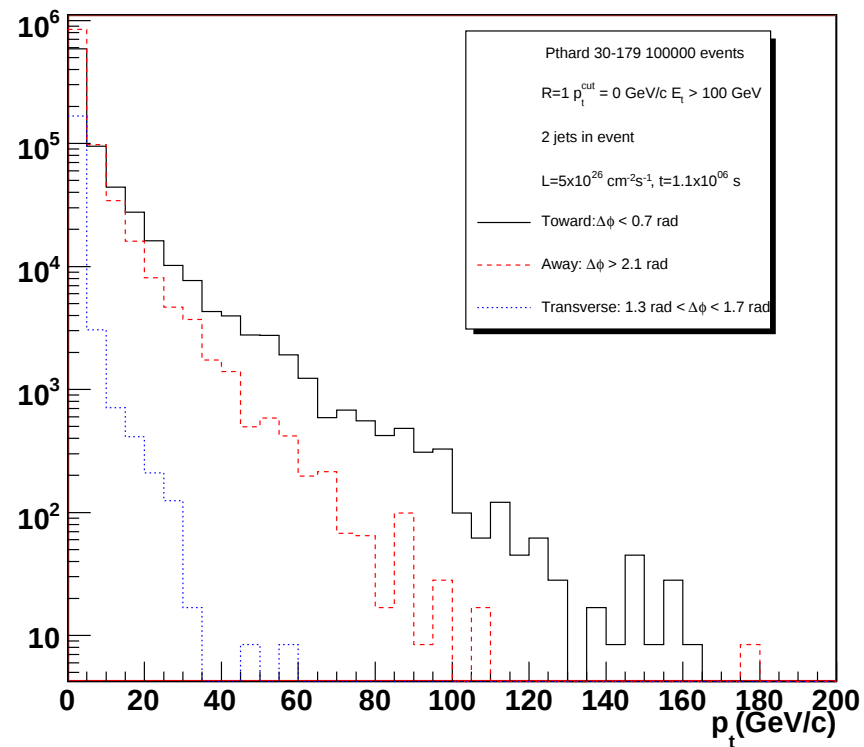
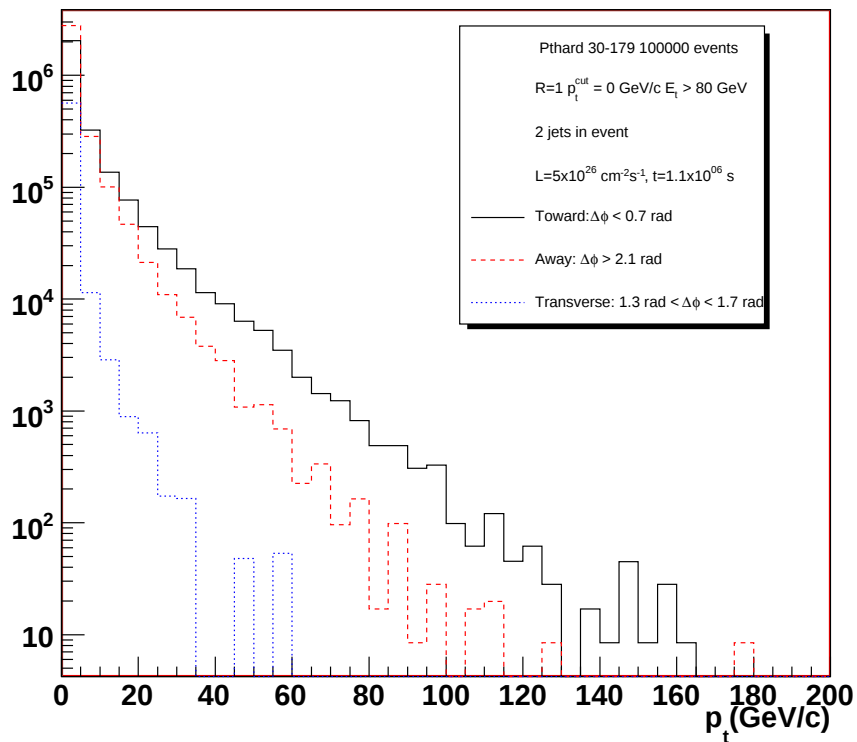
Azimuthal Correlations



Eventos con 2 jets



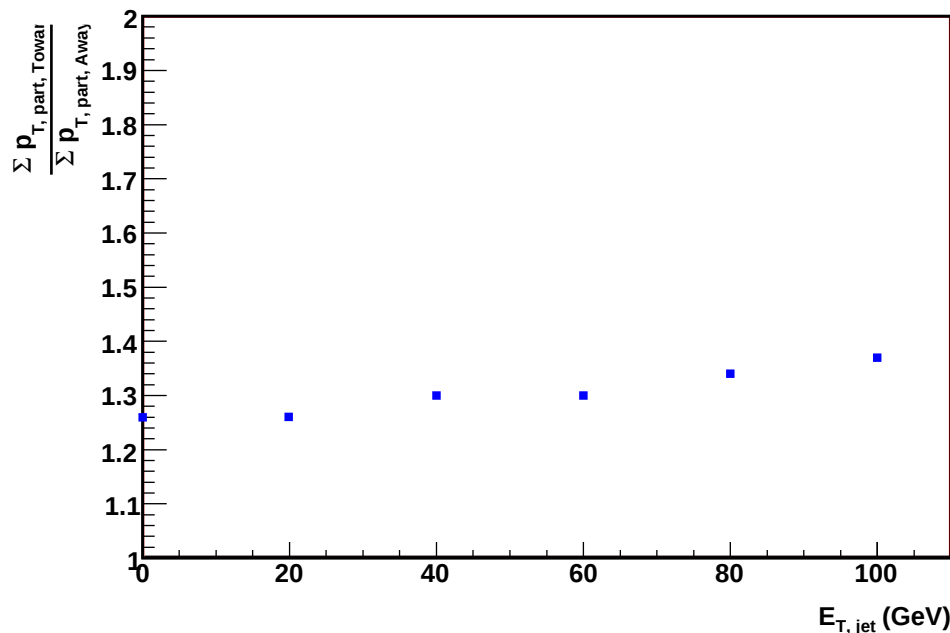
Eventos con 2 jets



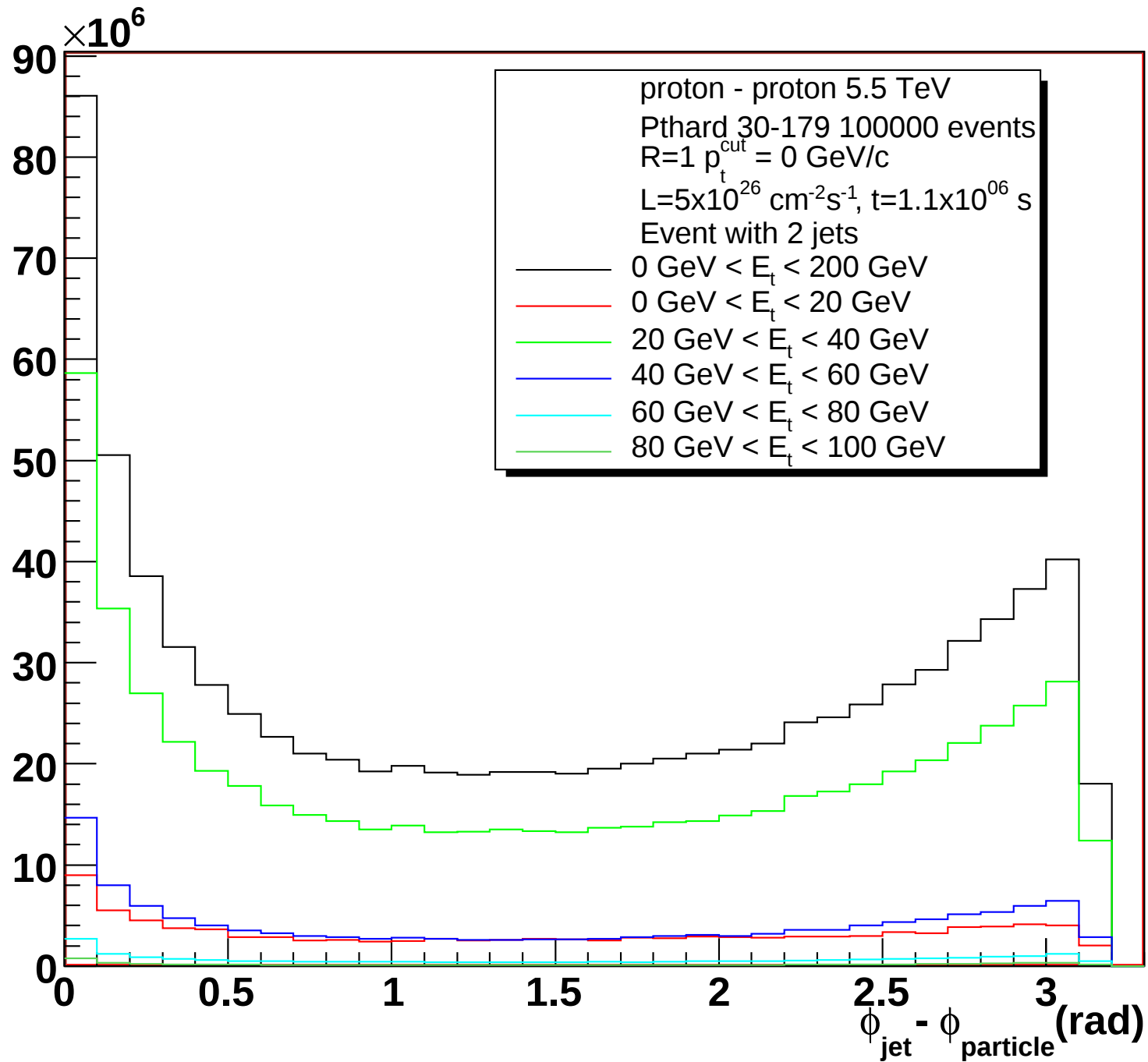
Eventos con 2 jets

	$\Sigma p_{T,part}$ [GeV/c] Toward $0 < \Delta\phi < 0.7$	$\Sigma p_{T,part}$ [GeV/c] Away $2.1 < \Delta\phi < \pi$	$\Sigma p_{T,part}$ [GeV/c] Transverse $1.3 < \Delta\phi < 1.7$
$E_{T,jet} > 0$ GeV	1.03e+06	8.20e+05	8.38e+04
$E_{T,jet} > 20$ GeV	1.02e+06	8.10e+05	8.16e+04
$E_{T,jet} > 40$ GeV	8.66e+05	6.71e+05	6.00e+04
$E_{T,jet} > 60$ GeV	6.45e+05	5.00e+05	3.78e+04
$E_{T,jet} > 80$ GeV	4.31e+05	3.21e+05	2.14e+04
$E_{T,jet} > 100$ GeV	2.44e+05	1.78e+05	1.00e+04

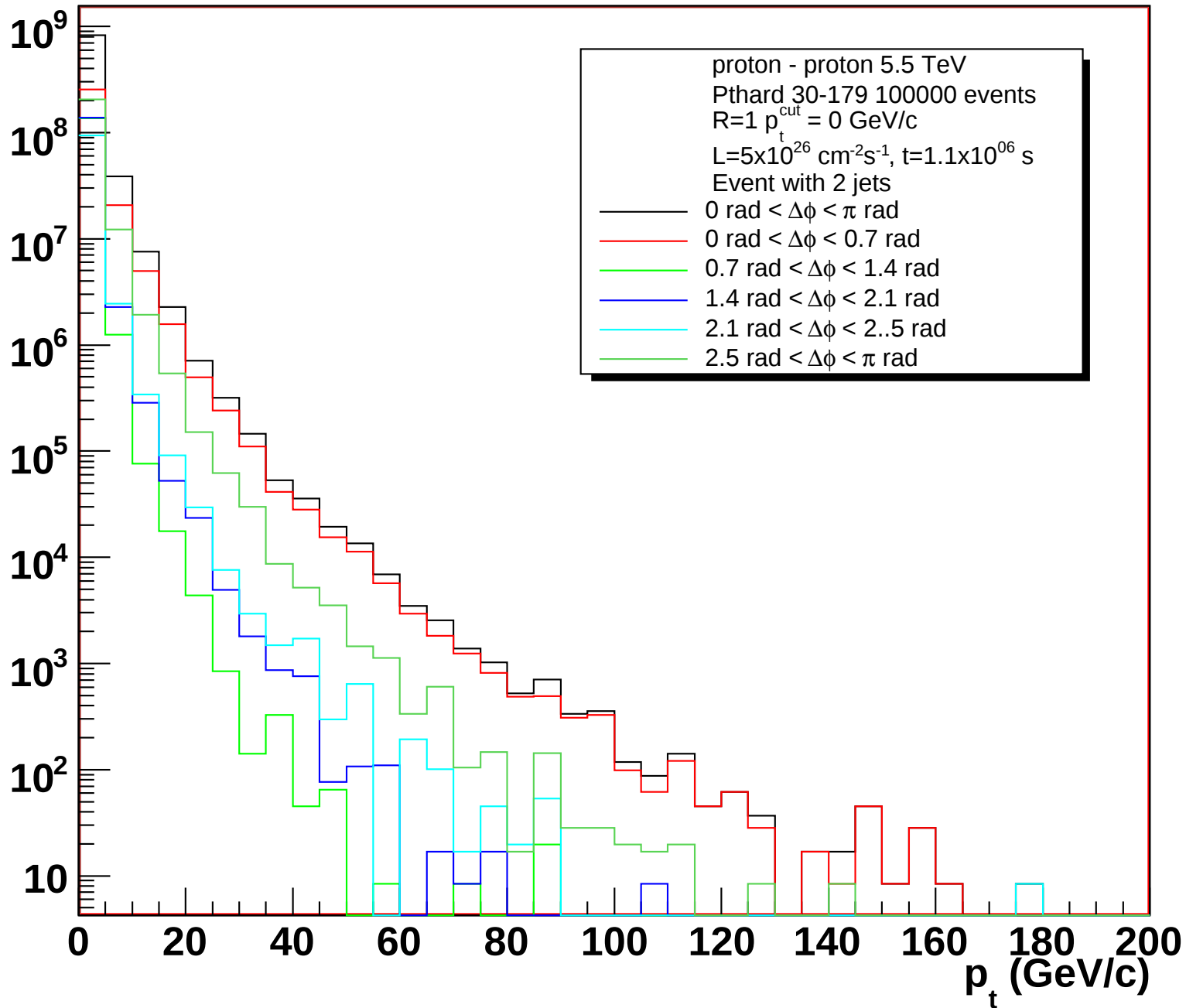
	$\frac{\Sigma p_{T,part,Toward}}{\Sigma p_{T,part,Away}}$
$E_{T,jet} > 0$ GeV	1.26
$E_{T,jet} > 20$ GeV	1.26
$E_{T,jet} > 40$ GeV	1.30
$E_{T,jet} > 60$ GeV	1.30
$E_{T,jet} > 80$ GeV	1.34
$E_{T,jet} > 100$ GeV	1.37



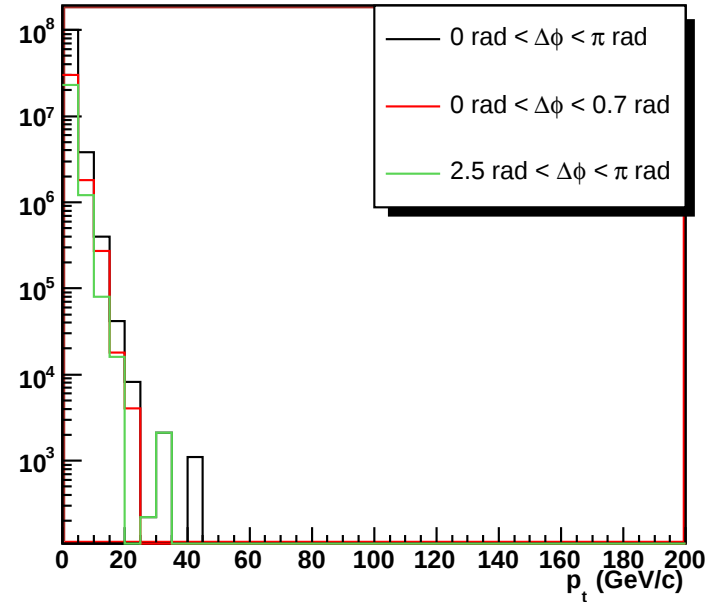
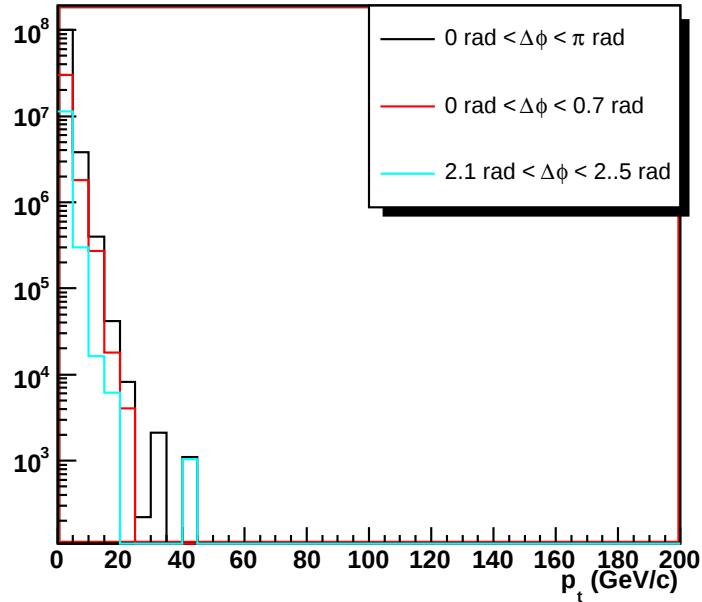
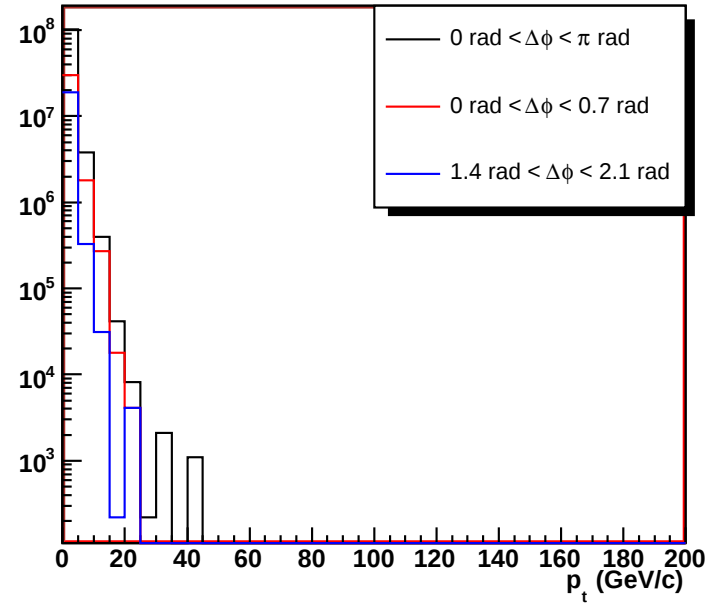
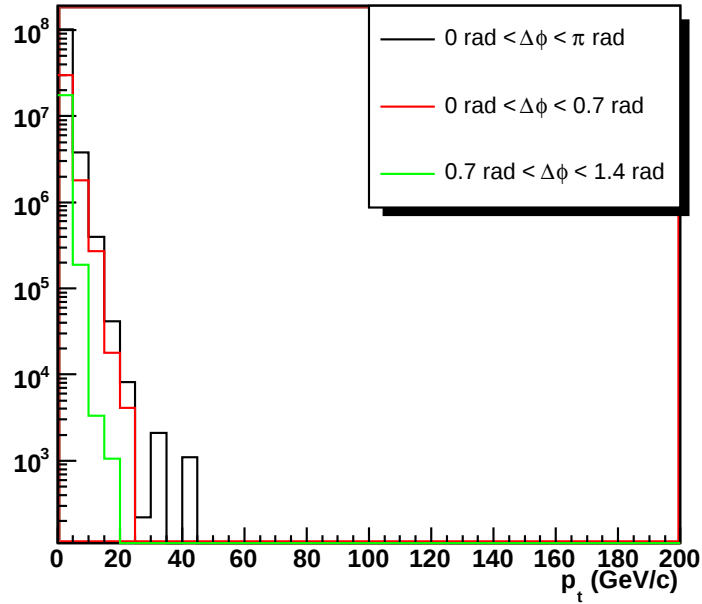
$\Delta\phi$ de eventos con 2 jets con cortes en E_t



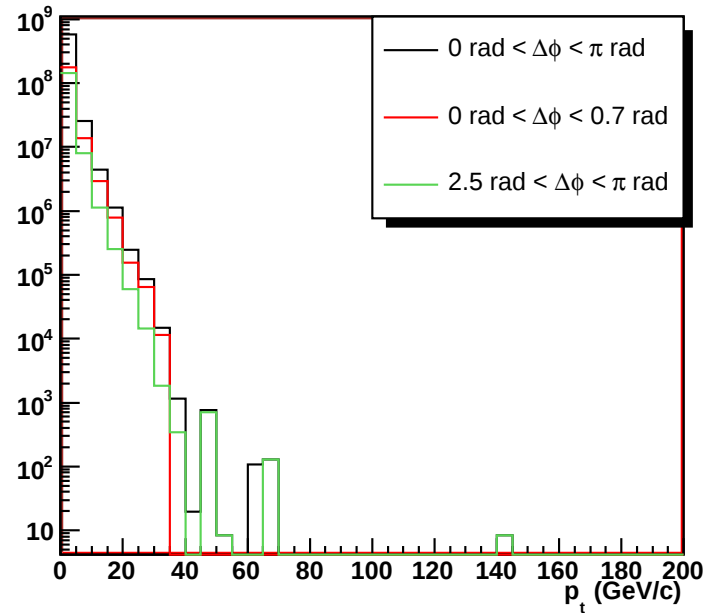
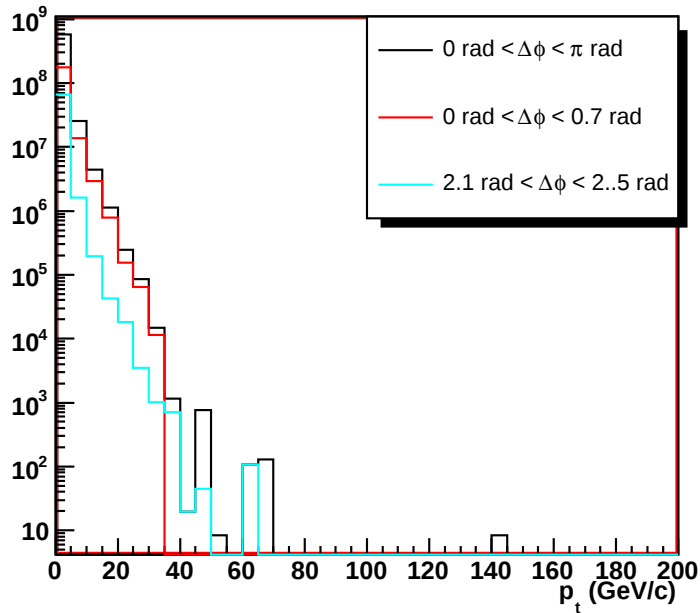
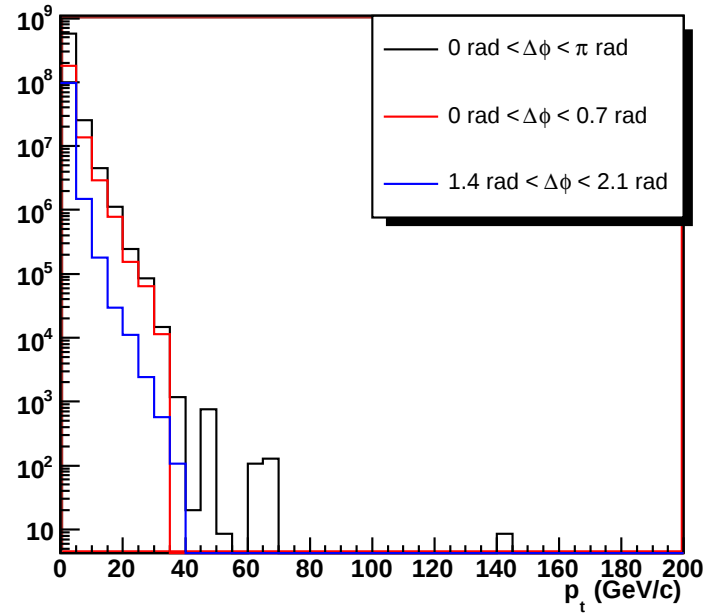
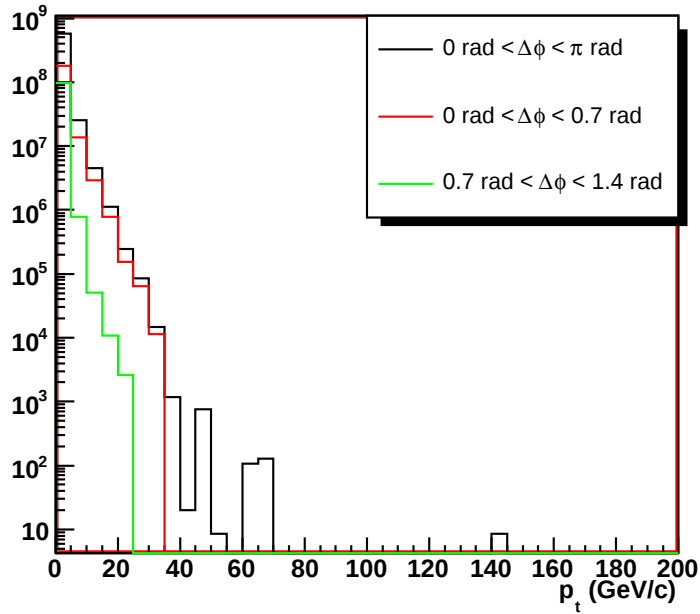
Eventos con 2 jets y cortes $\Delta\phi$



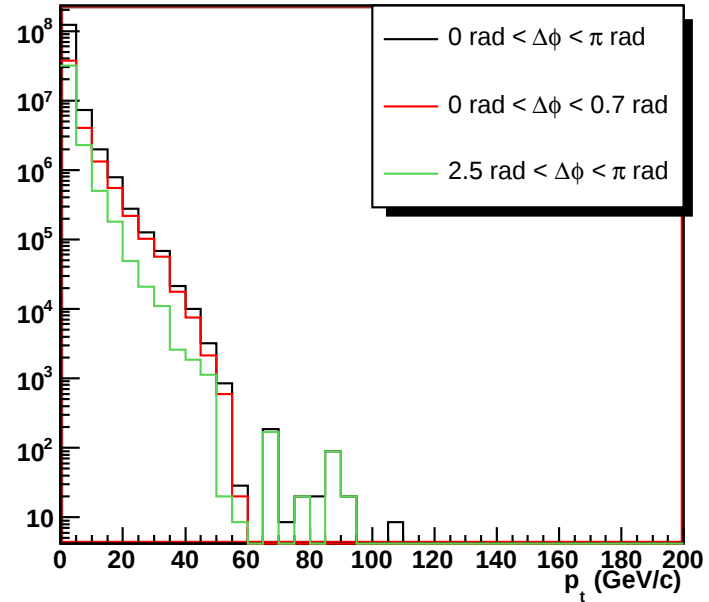
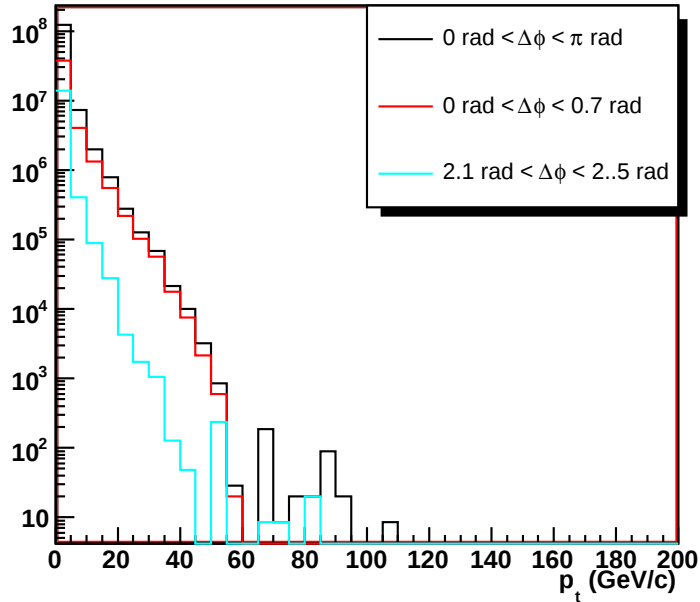
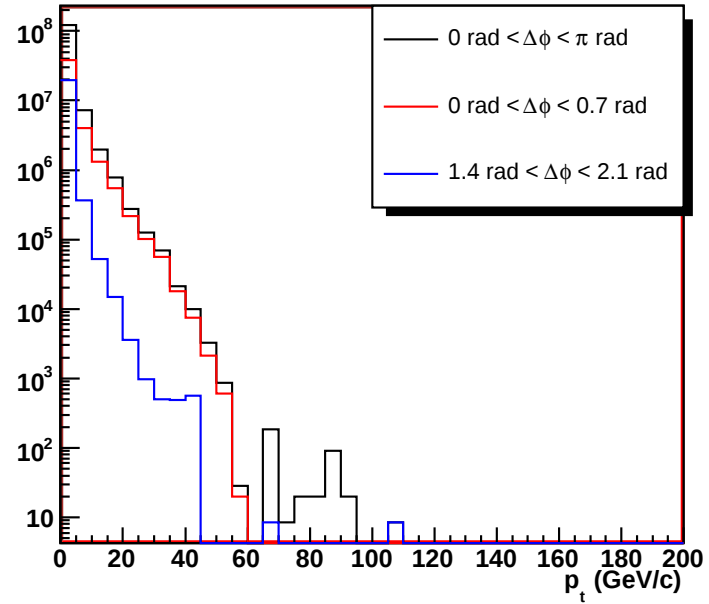
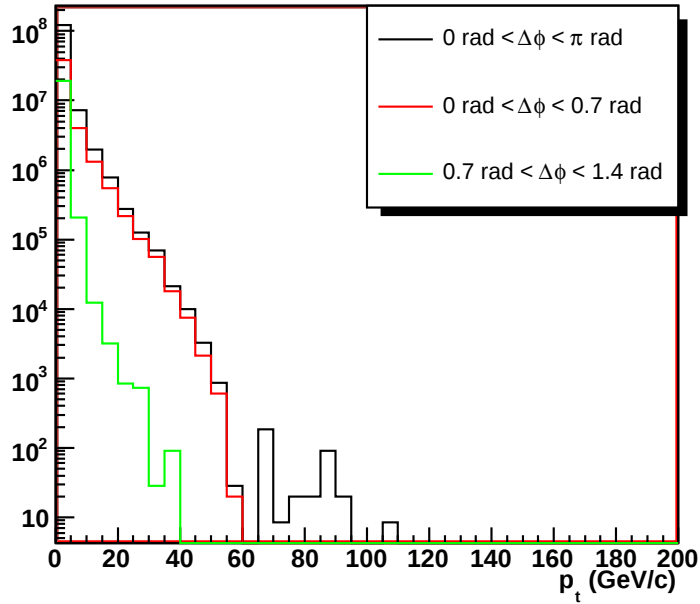
Eventos con 2 jets $0 < E_t < 20$ GeV y cortes $\Delta\phi$



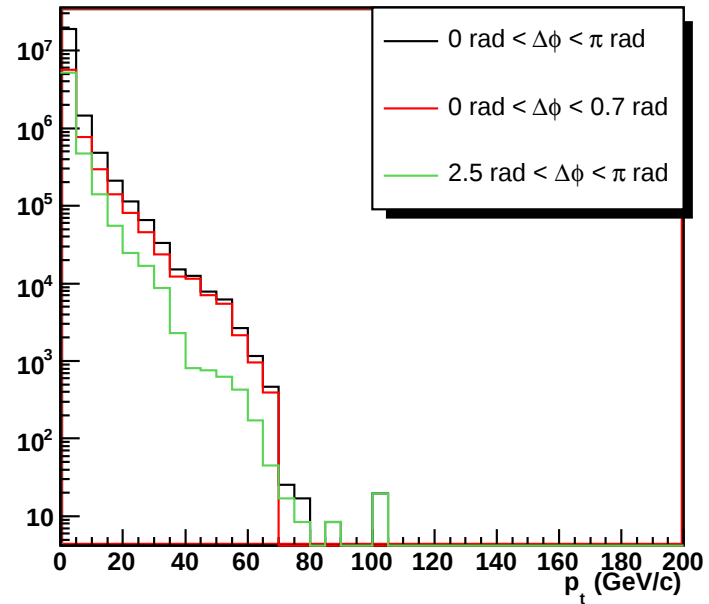
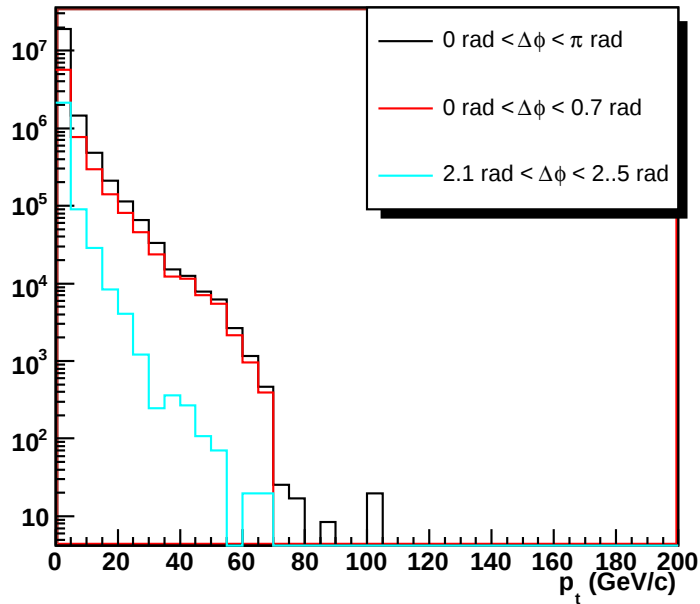
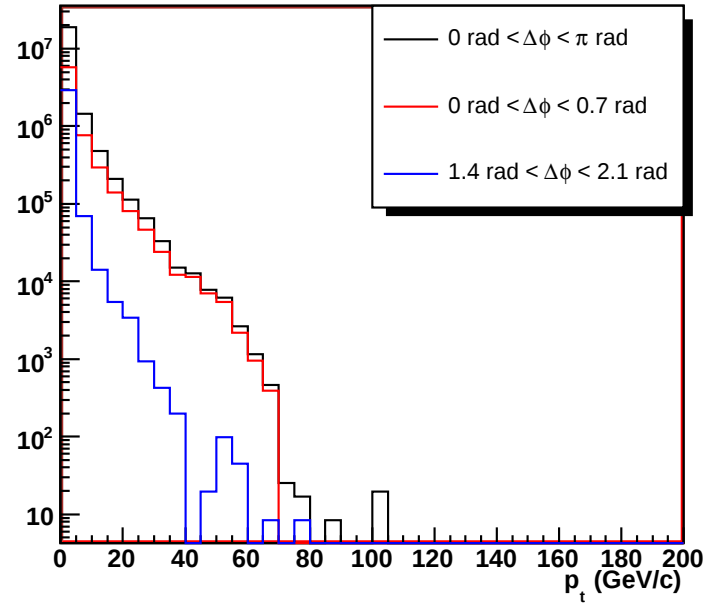
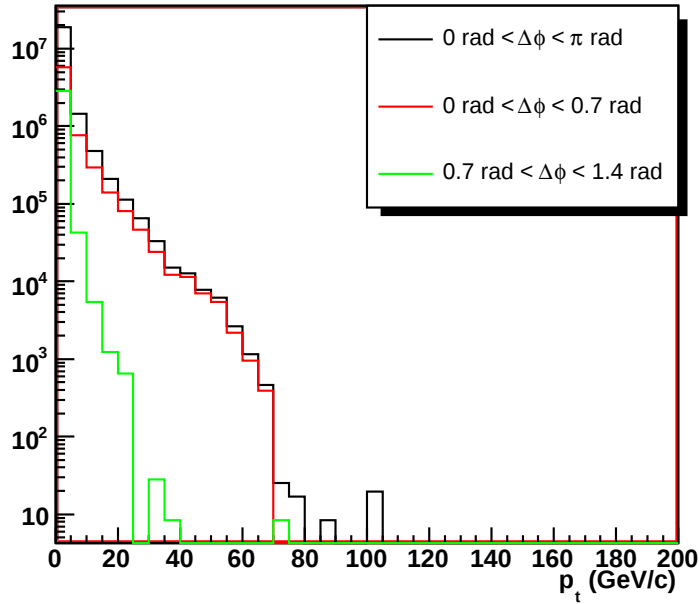
Eventos con 2 jets $20 \text{ GeV} < E_t < 40 \text{ GeV}$ y cortes $\Delta\phi$



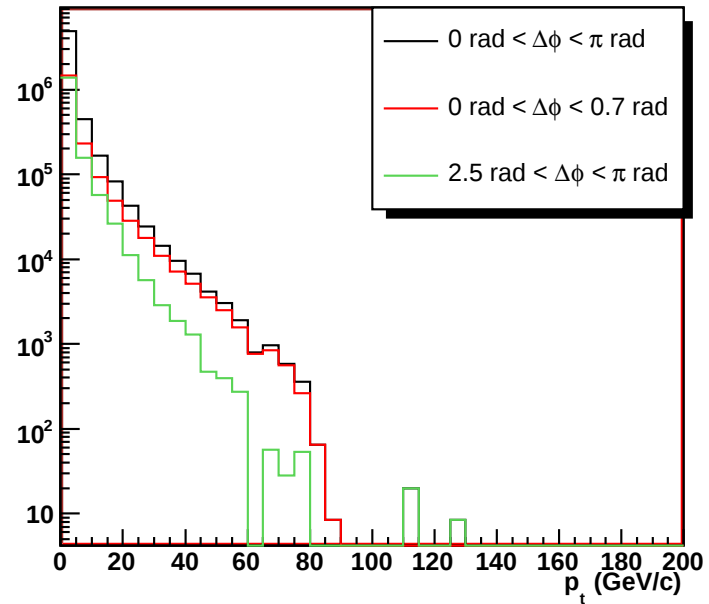
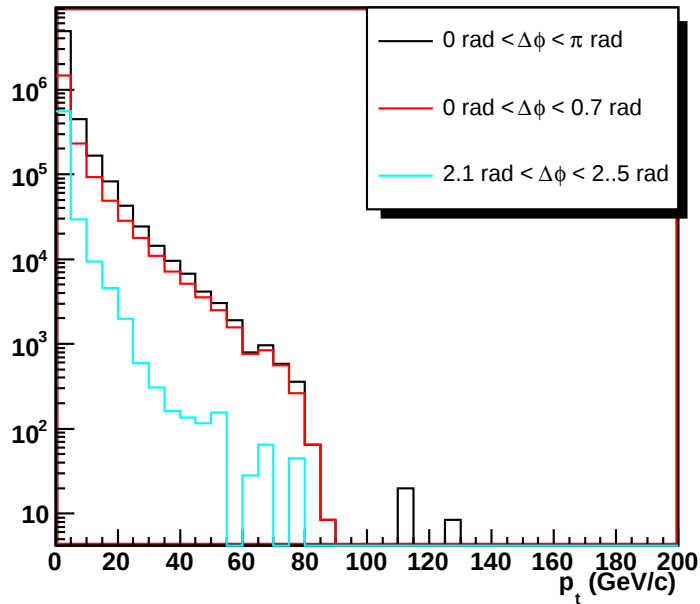
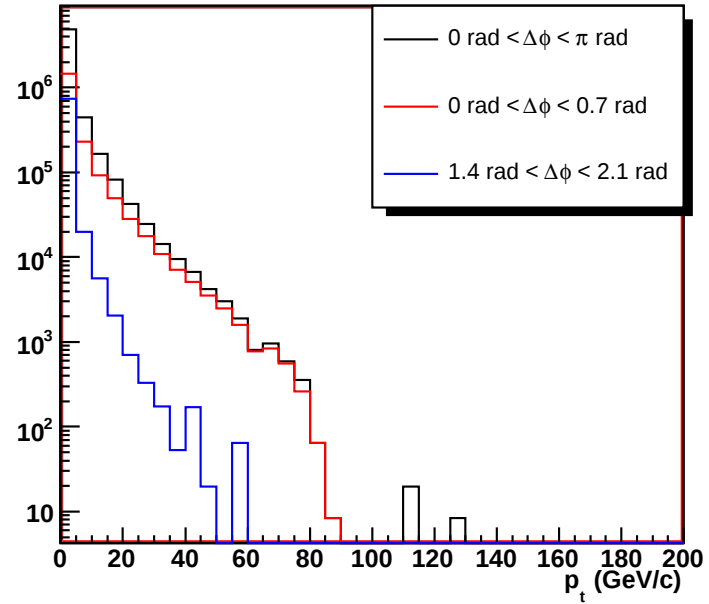
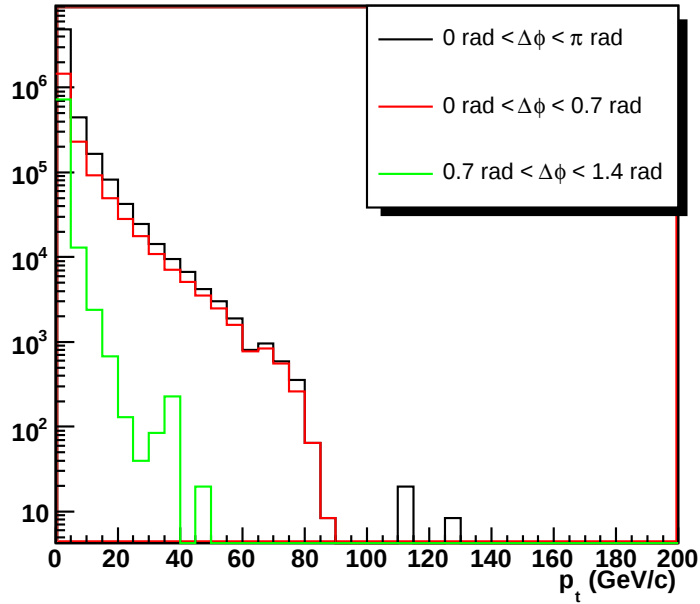
Eventos con 2 jets $40 \text{ GeV} < E_t < 60 \text{ GeV}$ y cortes $\Delta\phi$



Eventos con 2 jets $60 \text{ GeV} < E_t < 80 \text{ GeV}$ y cortes $\Delta\phi$



Eventos con 2 jets $80 \text{ GeV} < E_t < 100 \text{ GeV}$ y cortes $\Delta\phi$



$$\Sigma \mathbf{p}_{t,part}$$

GeV \ [GeV/c]	$\Sigma \mathbf{p}_{t,part}$ $0 < \Delta\phi < 0.7$	$\Sigma \mathbf{p}_{t,part}$ $0.7 < \Delta\phi < 1.4$	$\Sigma \mathbf{p}_{t,part}$ $1.4 < \Delta\phi < 2.1$	$\Sigma \mathbf{p}_{t,part}$ $2.1 < \Delta\phi < 2.5$	$\Sigma \mathbf{p}_{t,part}$ $2.5 < \Delta\phi < \pi$
$E_{T,jet} > 0$	1.03e+06	1.41e+05	1.67e+05	1.55e+05	6.65e+05
$0 < E_{T,jet} < 20$	1.01e+04	3.41e+03	3.99e+03	2.75e+03	7.27e+03
$20 < E_{T,jet} < 40$	1.58e+05	3.56e+04	4.16e+04	3.32e+04	1.05e+05
$40 < E_{T,jet} < 60$	2.20e+05	3.70e+04	4.39e+04	3.76e+04	1.42e+05
$60 < E_{T,jet} < 80$	2.14e+05	2.79e+04	3.26e+04	3.07e+04	1.39e+05
$80 < E_{T,jet} < 100$	1.87e+05	1.96e+04	2.30e+04	2.42e+04	1.19e+05

$\frac{\Sigma p_{t,part,\Delta\phi < 0,7}}{\Sigma p_{t,part,0,7 < \Delta\phi < 1,4}}$	$\frac{\Sigma p_{t,part,\Delta\phi < 0,7}}{\Sigma p_{t,part,1,4 < \Delta\phi < 2,1}}$	$\frac{\Sigma p_{t,part,\Delta\phi < 0,7}}{\Sigma p_{t,part,2,1 < \Delta\phi < 2,5}}$	$\frac{\Sigma p_{t,part,\Delta\phi < 0,7}}{\Sigma p_{t,part,2,5 < \Delta\phi < \pi}}$
7.33	6.20	6.69	1.56
2.97	2.54	3.69	1.39
4.45	3.81	4.78	1.51
5.95	5.01	5.85	1.55
7.69	6.57	6.97	1.54
9.51	8.10	7.71	1.56

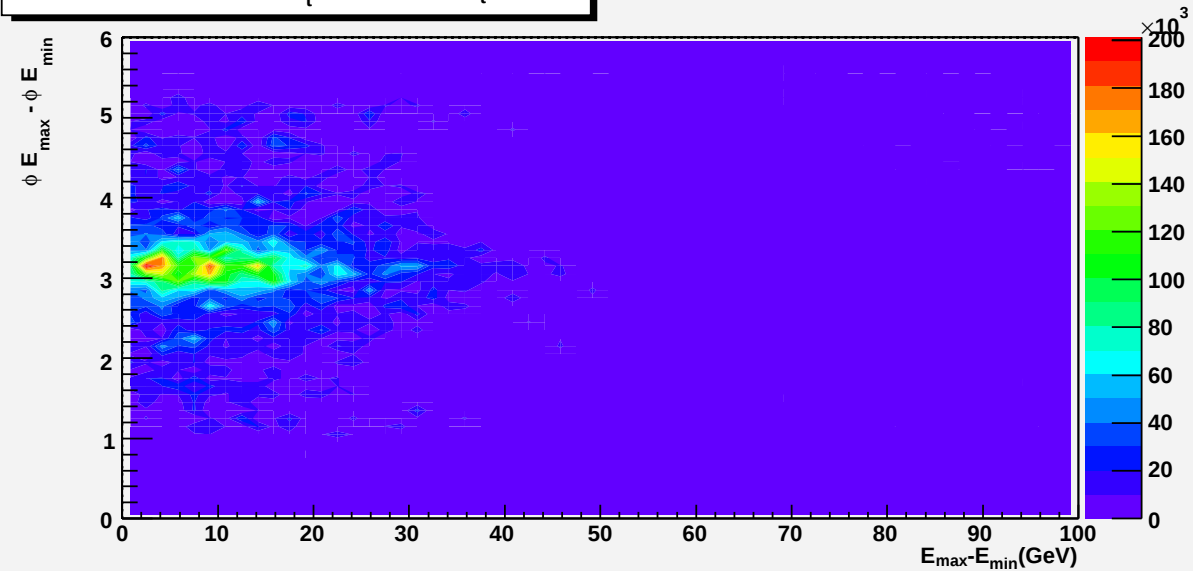
$$\Sigma p_{t,part}: 2.1 < \Delta\phi < \pi$$

GeV \ [GeV/c]	$\Sigma p_{t,part}$ $0 < \Delta\phi < 0.7$	$\Sigma p_{t,part}$ $0.7 < \Delta\phi < 1.4$	$\Sigma p_{t,part}$ $1.4 < \Delta\phi < 2.1$	$\Sigma p_{t,part}$ $2.1 < \Delta\phi < \pi$
$E_{T,jet} > 0$	1.03e+06	1.41e+05	1.67e+05	8.19e+05
$0 < E_{T,jet} < 20$	1.01e+04	3.41e+03	3.99e+03	1.00e+04
$20 < E_{T,jet} < 40$	1.58e+05	3.56e+04	4.16e+04	1.38e+05
$40 < E_{T,jet} < 60$	2.20e+05	3.70e+04	4.39e+04	1.80e+05
$60 < E_{T,jet} < 80$	2.14e+05	2.79e+04	3.26e+04	1.70e+05
$80 < E_{T,jet} < 100$	1.87e+05	1.96e+04	2.30e+04	1.44e+05

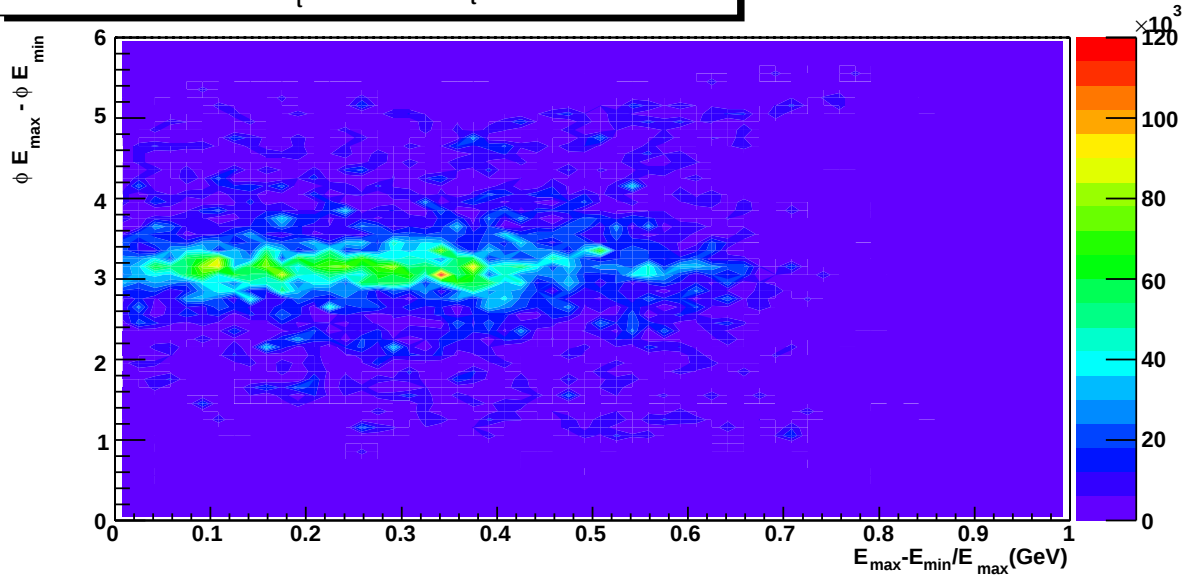
$\frac{\Sigma p_{t,part,\Delta\phi < 0,7}}{\Sigma p_{t,part,0,7 < \Delta\phi < 1,4}}$	$\frac{\Sigma p_{t,part,\Delta\phi < 0,7}}{\Sigma p_{t,part,1,4 < \Delta\phi < 2,1}}$	$\frac{\Sigma p_{t,part,\Delta\phi < 0,7}}{\Sigma p_{t,part,2,1 < \Delta\phi < \pi}}$
7.33	6.20	1.26
2.97	2.54	1.01
4.45	3.81	1.15
5.95	5.01	1.23
7.69	6.57	1.26
9.51	8.10	1.30

Eventos con 2 jets y cortes $\Delta\phi$ de jets

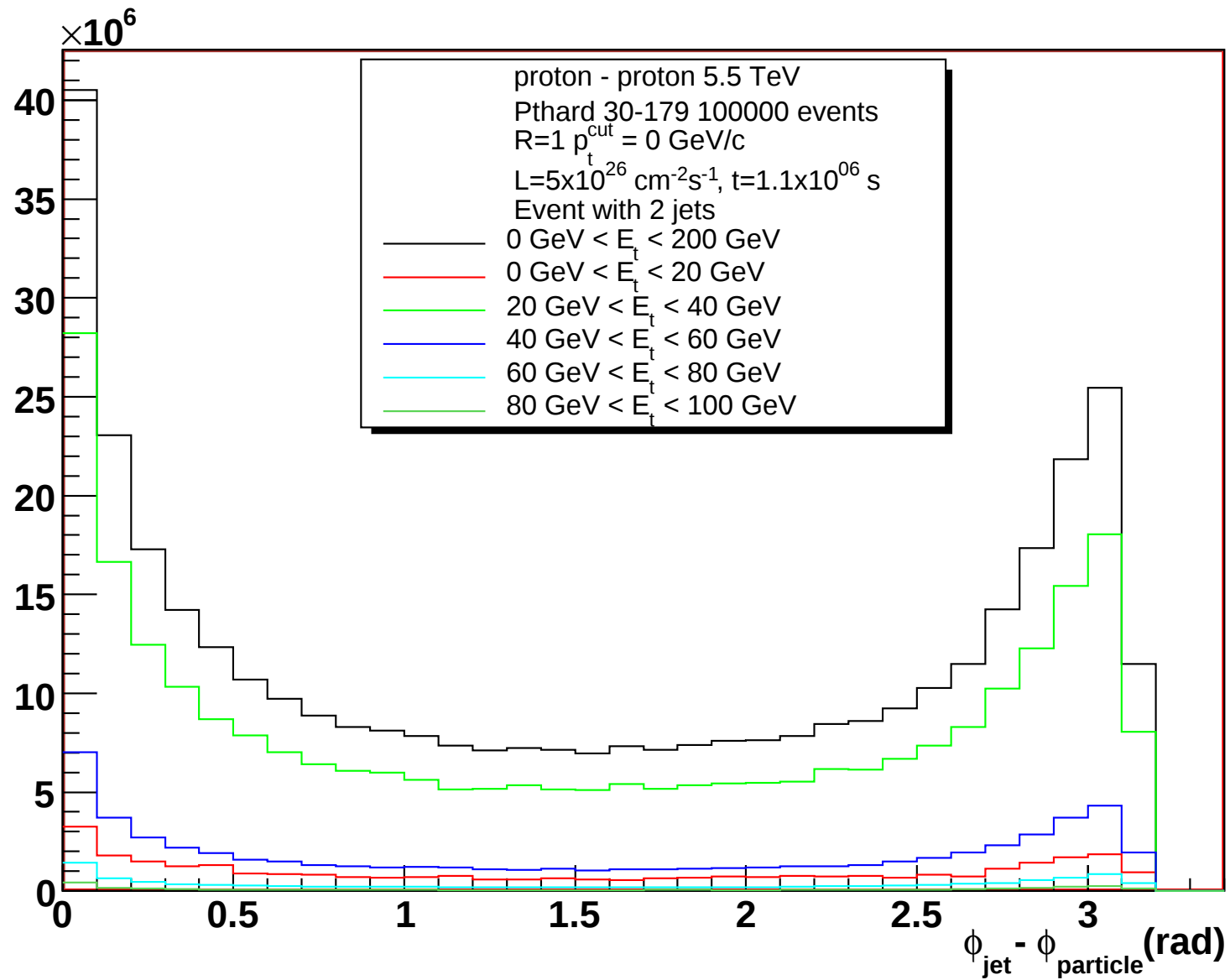
Charged signal $R=1$ $p_t^{\text{cut}}=0$ GeV/c $E_t>0$ GeV



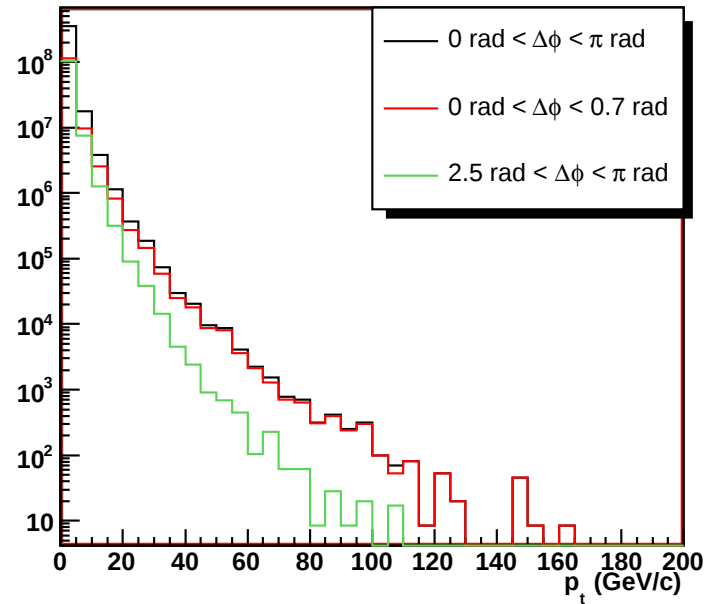
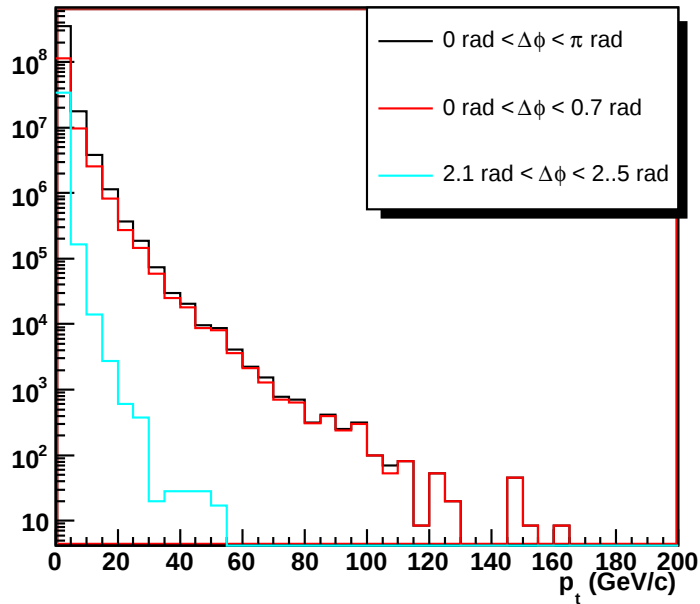
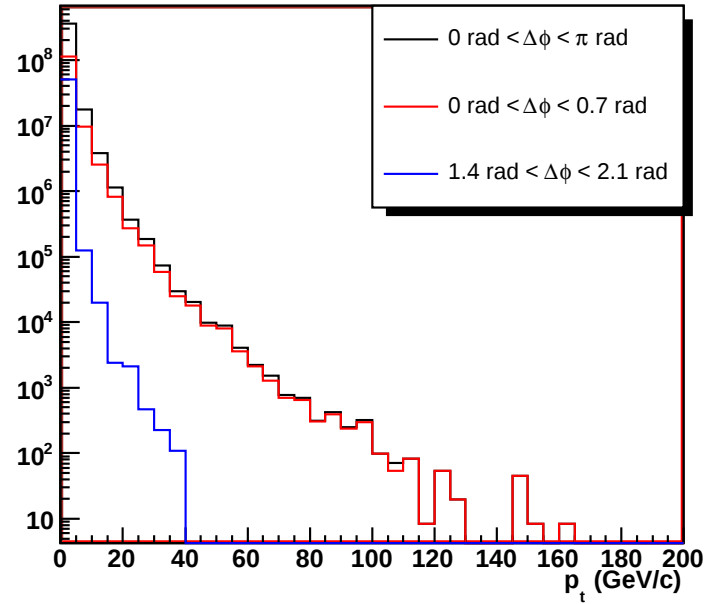
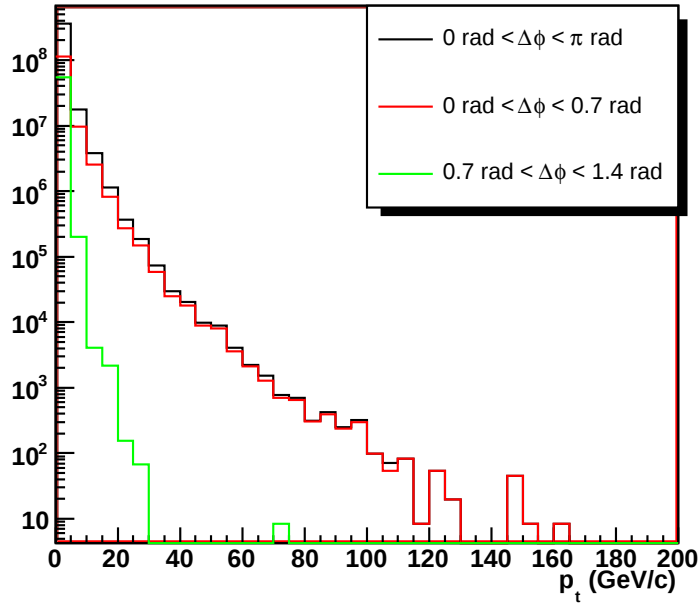
Charged signal $R=1$ $p_t^{\text{cut}}=0$ GeV/c $E_t>0$ GeV normalized



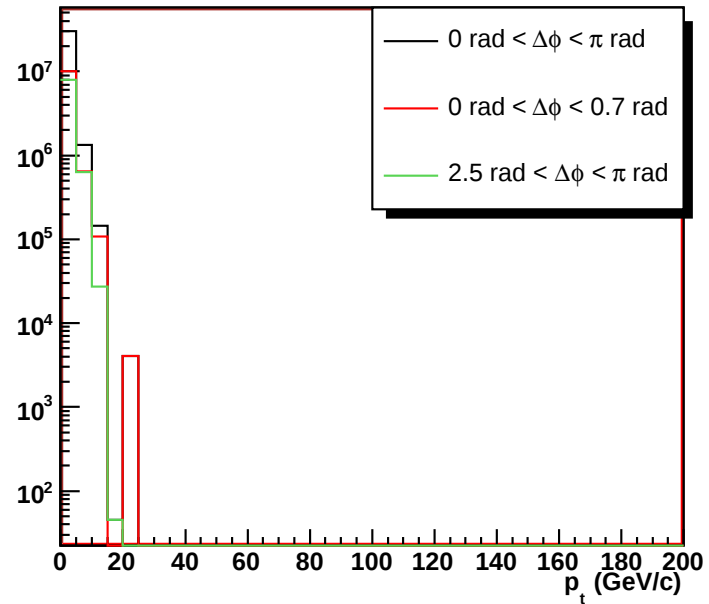
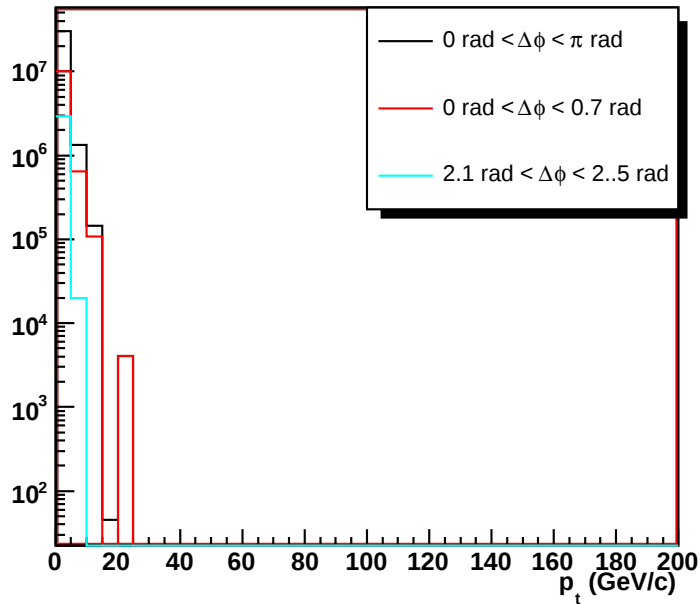
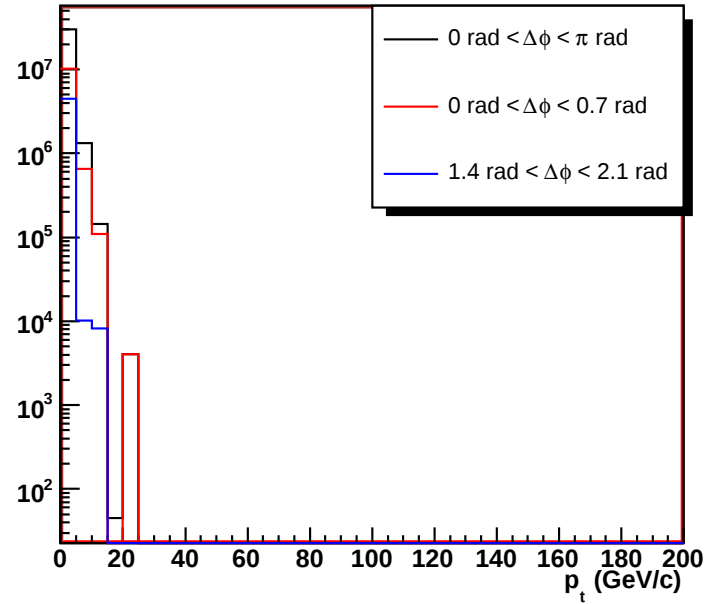
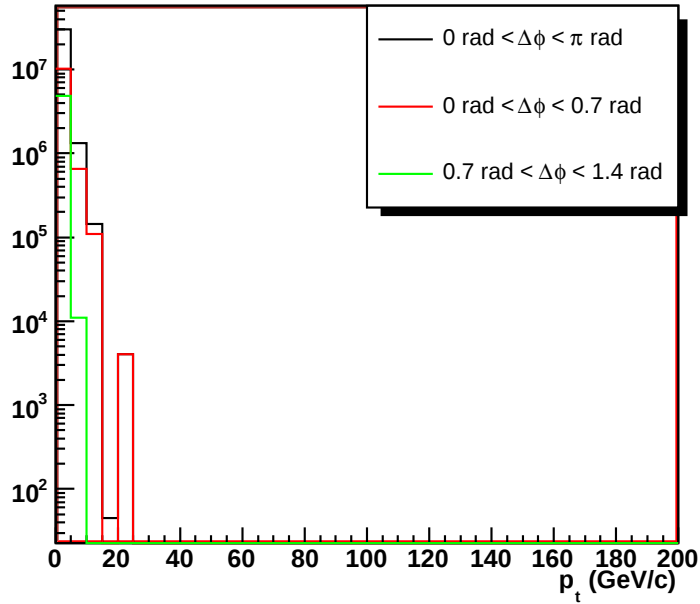
$\Delta\phi$ de eventos con 2 jets con cortes en E_t



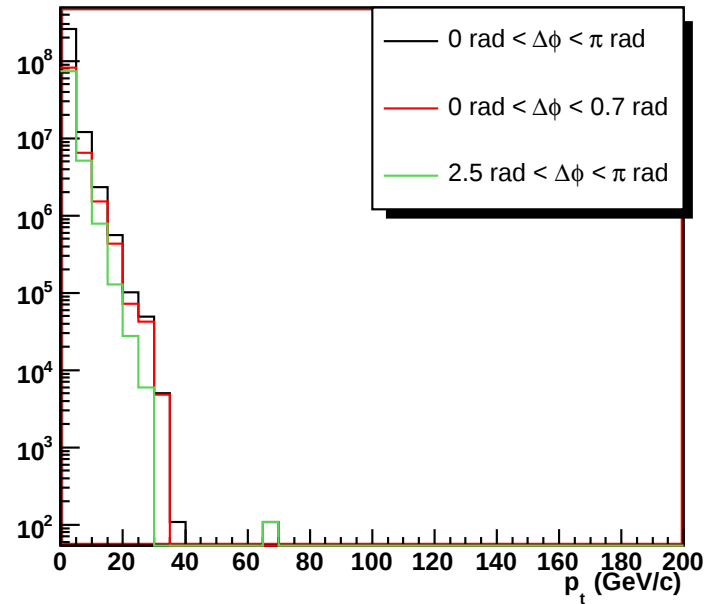
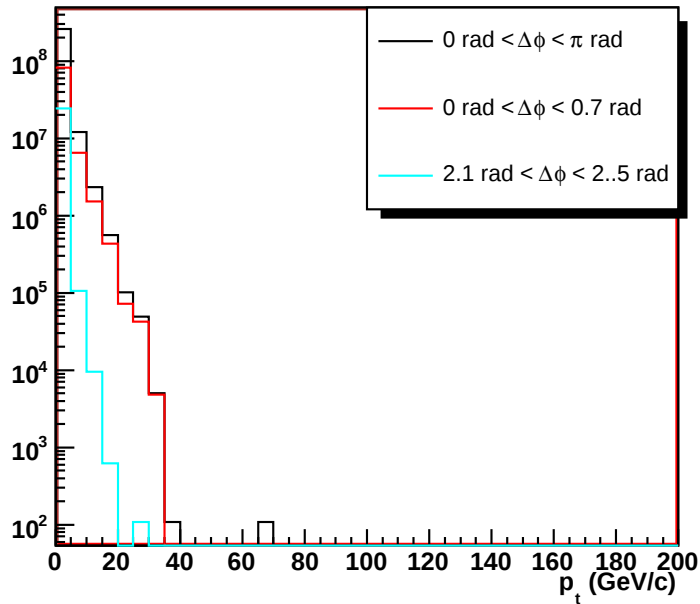
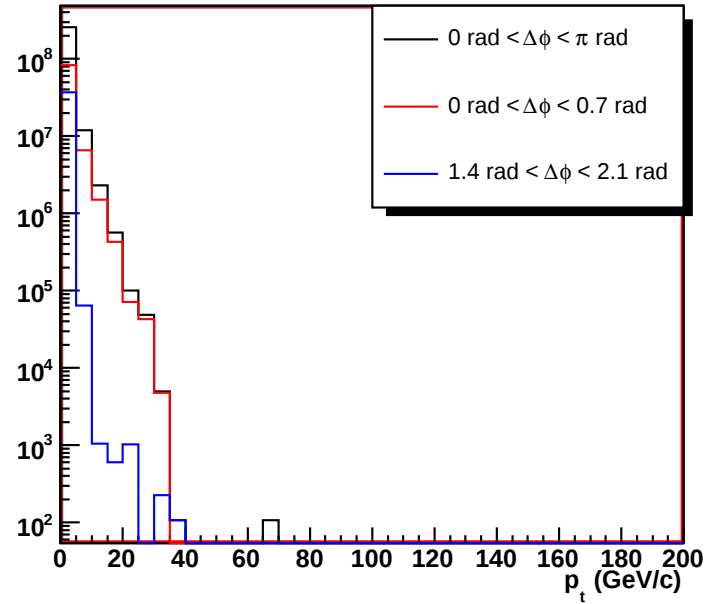
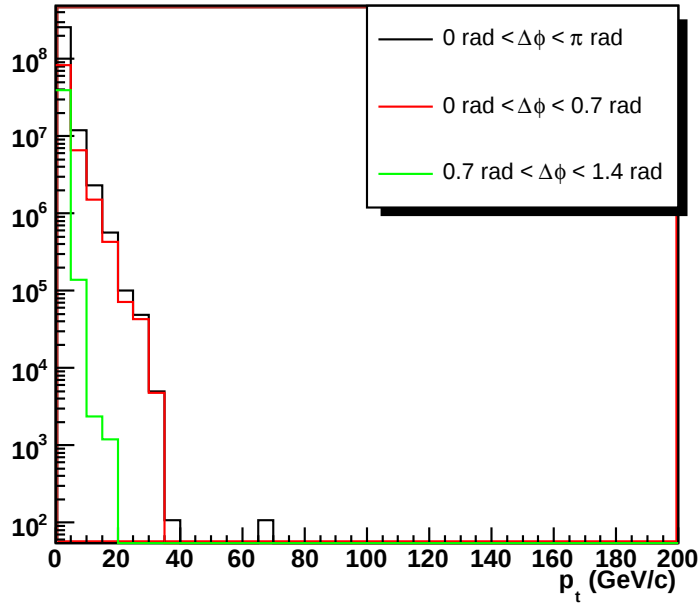
Eventos con 2 jets y cortes $\Delta\phi$



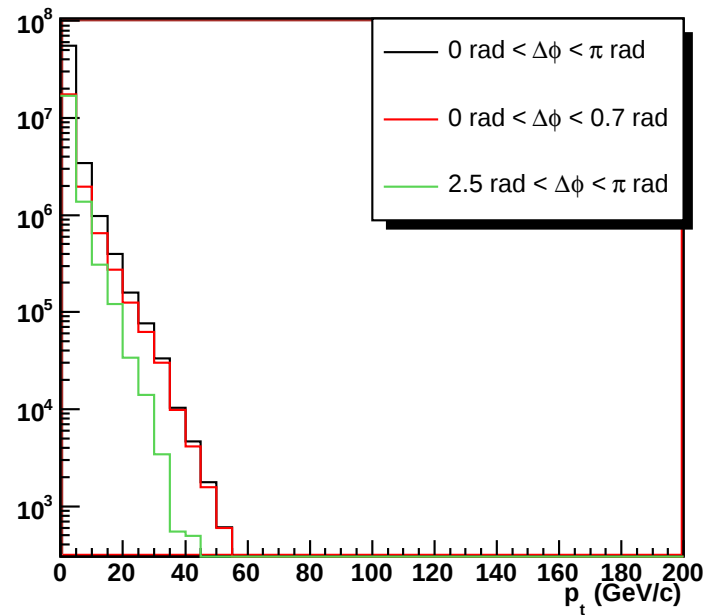
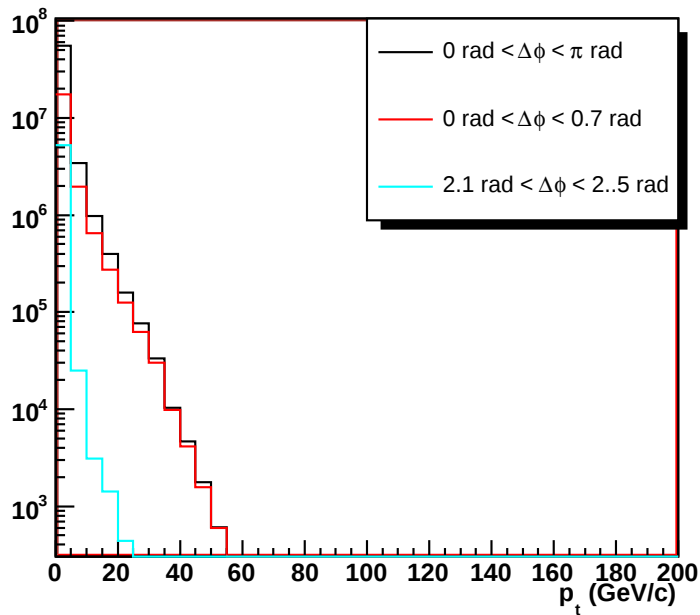
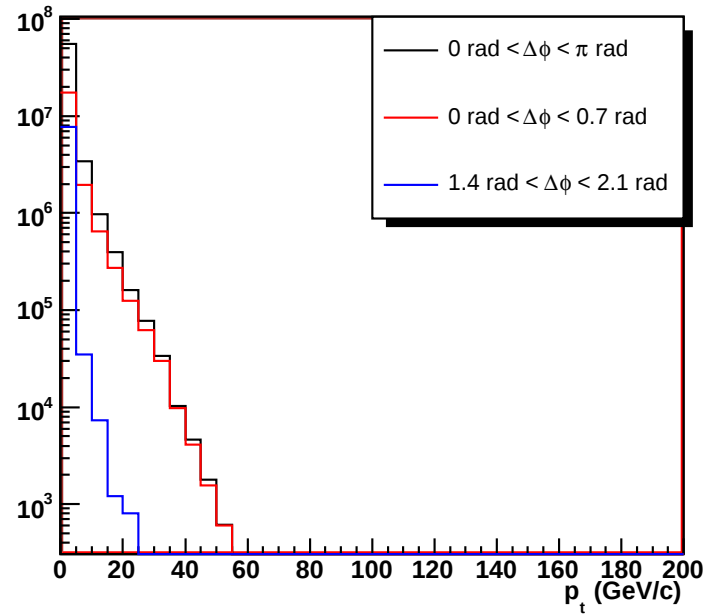
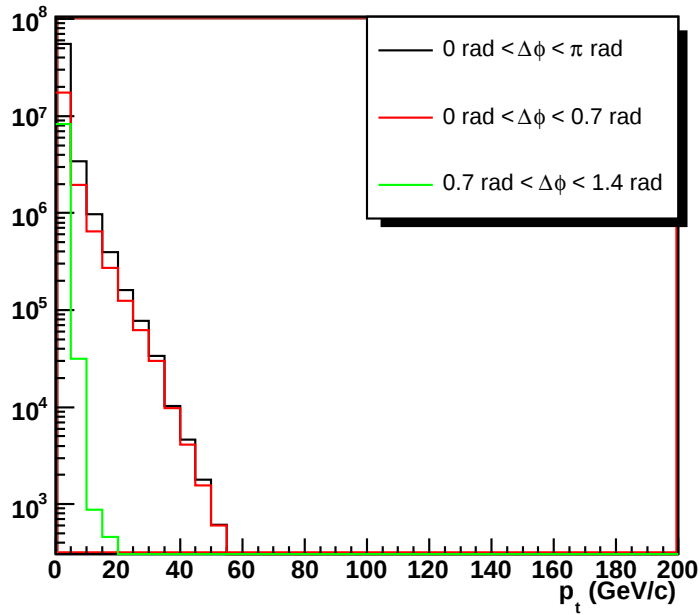
Eventos con 2 jets $0 < E_t < 20$ GeV y cortes $\Delta\phi$



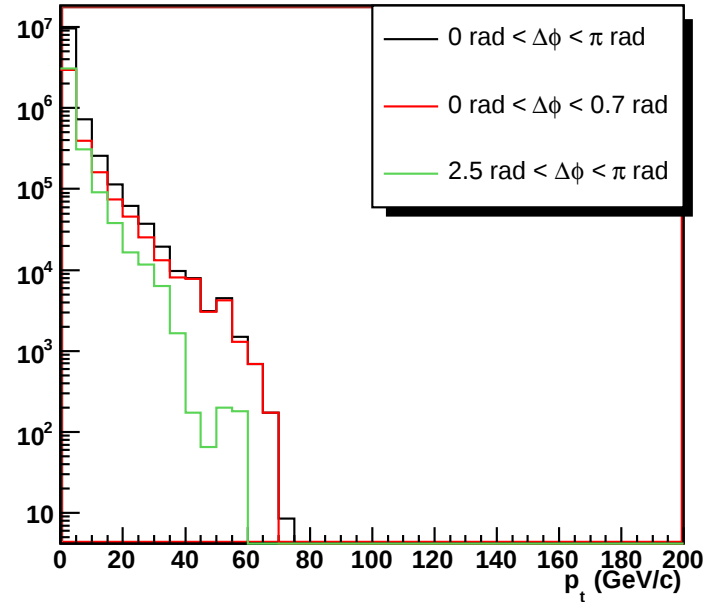
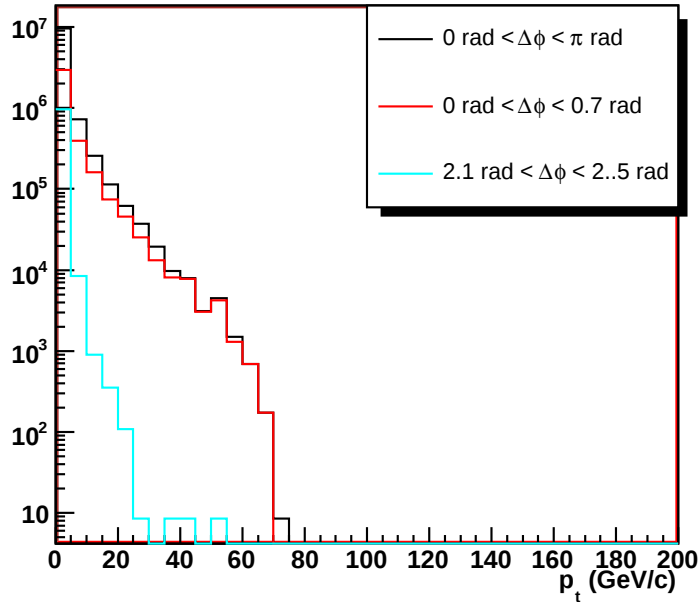
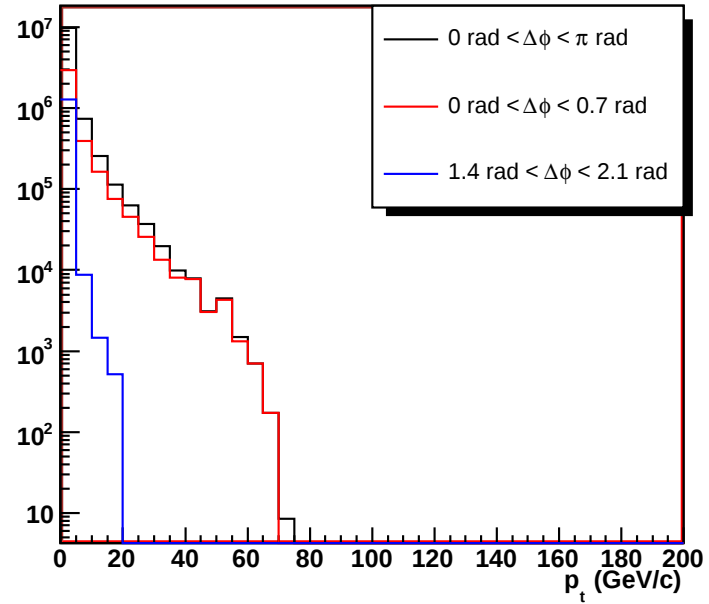
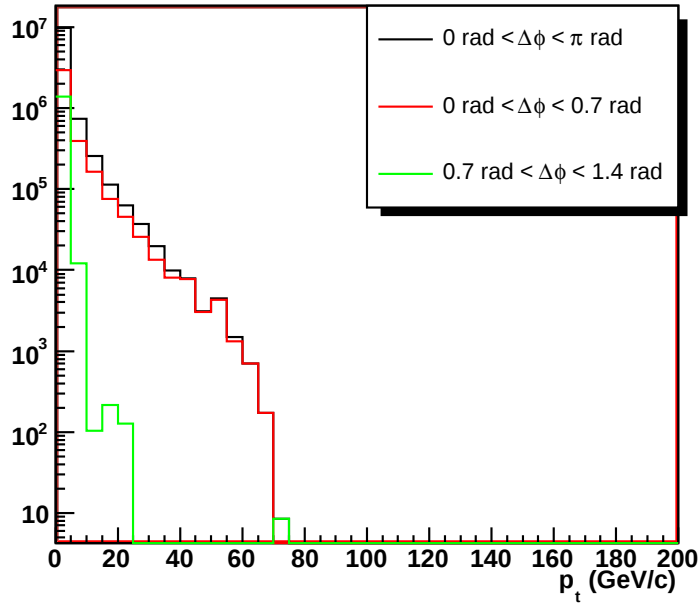
Eventos con 2 jets $20 \text{ GeV} < E_t < 40 \text{ GeV}$ y cortes $\Delta\phi$



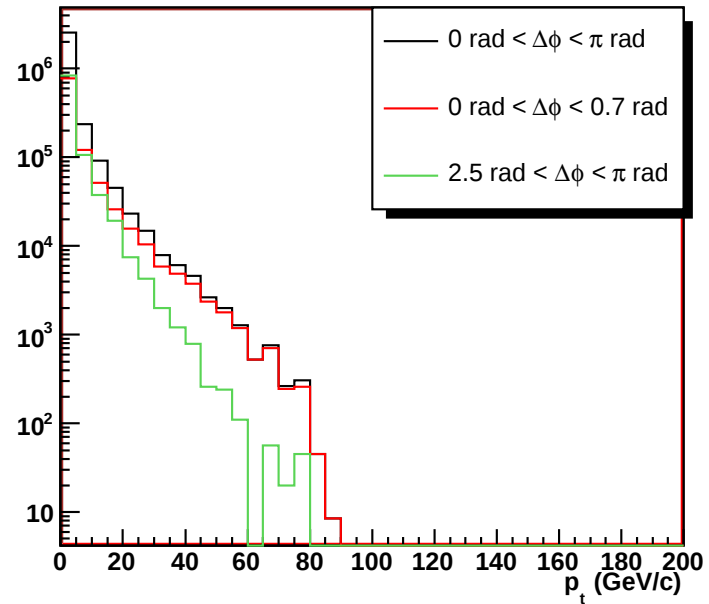
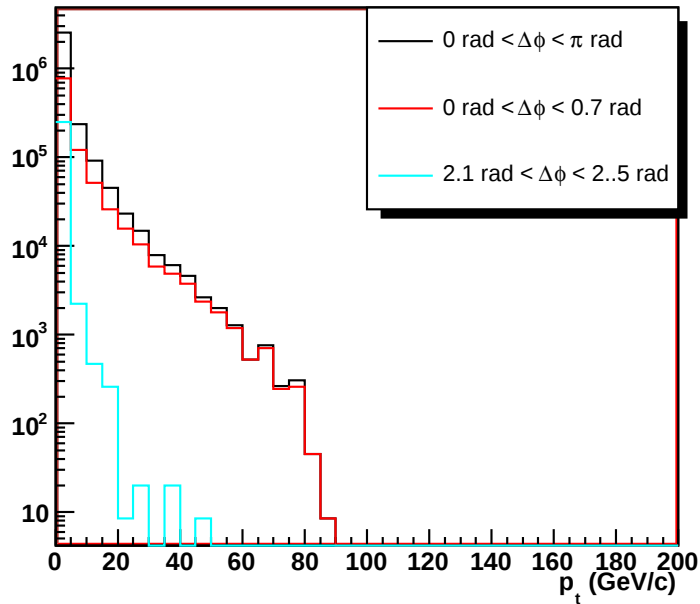
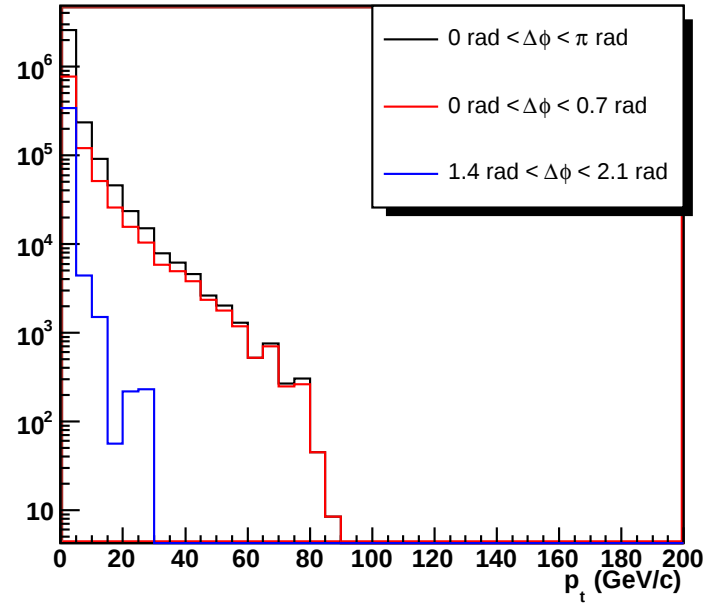
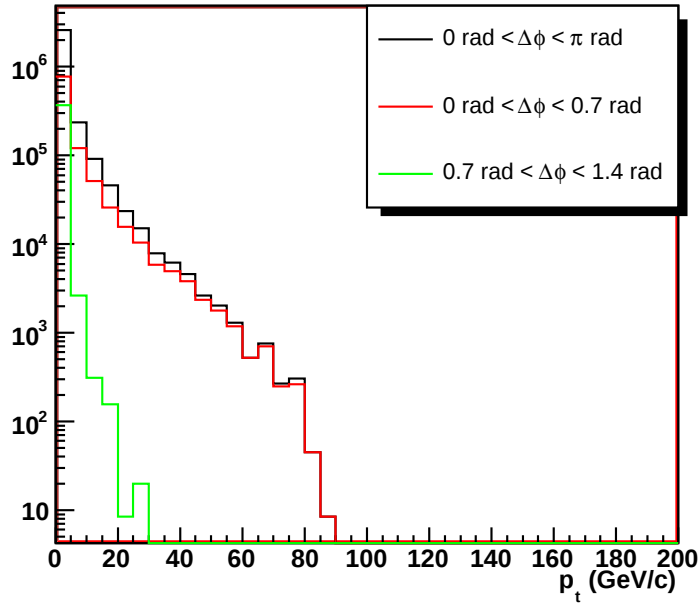
Eventos con 2 jets $40 \text{ GeV} < E_t < 60 \text{ GeV}$ y cortes $\Delta\phi$



Eventos con 2 jets $60 \text{ GeV} < E_t < 80 \text{ GeV}$ y cortes $\Delta\phi$



Eventos con 2 jets $80 \text{ GeV} < E_t < 100 \text{ GeV}$ y cortes $\Delta\phi$



$$\Sigma \mathbf{p}_{t,part}$$

GeV \ [GeV/c]	$\Sigma \mathbf{p}_{t,part}$ $0 < \Delta\phi < 0.7$	$\Sigma \mathbf{p}_{t,part}$ $0.7 < \Delta\phi < 1.4$	$\Sigma \mathbf{p}_{t,part}$ $1.4 < \Delta\phi < 2.1$	$\Sigma \mathbf{p}_{t,part}$ $2.1 < \Delta\phi < 2.5$	$\Sigma \mathbf{p}_{t,part}$ $2.5 < \Delta\phi < \pi$
$E_{T,jet} > 0$	5.57E+005	4.92E+004	4.60E+004	3.57E+004	4.07E+005
$0 < E_{T,jet} < 20$	2.99E+003	5.48E+002	5.64E+002	3.54E+002	2.47E+003
$20 < E_{T,jet} < 40$	7.07E+004	1.06E+004	1.01E+004	7.14E+003	5.54E+004
$40 < E_{T,jet} < 60$	1.08E+005	1.19E+004	1.15E+004	8.59E+003	7.97E+004
$60 < E_{T,jet} < 80$	1.13E+005	9.92E+003	9.10E+003	7.46E+003	8.44E+004
$80 < E_{T,jet} < 100$	1.11E+005	7.87E+003	7.45E+003	5.75E+003	8.07E+004

$\frac{\Sigma p_{t,part,\Delta\phi < 0,7}}{\Sigma p_{t,part,0,7 < \Delta\phi < 1,4}}$	$\frac{\Sigma p_{t,part,\Delta\phi < 0,7}}{\Sigma p_{t,part,1,4 < \Delta\phi < 2,1}}$	$\frac{\Sigma p_{t,part,\Delta\phi < 0,7}}{\Sigma p_{t,part,2,1 < \Delta\phi < 2,5}}$	$\frac{\Sigma p_{t,part,\Delta\phi < 0,7}}{\Sigma p_{t,part,2,5 < \Delta\phi < \pi}}$
1.13E+001	1.21E+001	1.56E+001	1.37E+000
5.46E+000	5.30E+000	8.43E+000	1.21E+000
6.65E+000	7.03E+000	9.90E+000	1.28E+000
9.11E+000	9.37E+000	1.26E+001	1.36E+000
1.14E+001	1.24E+001	1.52E+001	1.34E+000
1.41E+001	1.48E+001	1.92E+001	1.37E+000

$$\Sigma \mathbf{p}_{t,part}$$

GeV \ [GeV/c]	$\Sigma \mathbf{p}_{t,part}$ $0 < \Delta\phi < 0.7$	$\Sigma \mathbf{p}_{t,part}$ $0.7 < \Delta\phi < 1.4$	$\Sigma \mathbf{p}_{t,part}$ $1.4 < \Delta\phi < 2.1$	$\Sigma \mathbf{p}_{t,part}$ $2.1 < \Delta\phi < \pi$
$E_{T,jet} > 0$	5.57E+005	4.92E+004	4.60E+004	4.43E+005
$0 < E_{T,jet} < 20$	2.99E+003	5.48E+002	5.64E+002	2.83E+003
$20 < E_{T,jet} < 40$	7.07E+004	1.06E+004	1.01E+004	6.26E+004
$40 < E_{T,jet} < 60$	1.08E+005	1.19E+004	1.15E+004	8.82E+004
$60 < E_{T,jet} < 80$	1.13E+005	9.92E+003	9.10E+003	9.19E+004
$80 < E_{T,jet} < 100$	1.11E+005	7.87E+003	7.45E+003	8.64E+004

$\frac{\Sigma p_{t,part,\Delta\phi<0,7}}{\Sigma p_{t,part,0,7<\Delta\phi<1,4}}$	$\frac{\Sigma p_{t,part,\Delta\phi<0,7}}{\Sigma p_{t,part,1,4<\Delta\phi<2,1}}$	$\frac{\Sigma p_{t,part,\Delta\phi<0,7}}{\Sigma p_{t,part,2,1<\Delta\phi<\pi}}$
1.13E+001	1.21E+001	1.26E+000
5.46E+000	5.30E+000	1.06E+000
6.65E+000	7.03E+000	1.13E+000
9.11E+000	9.37E+000	1.22E+000
1.14E+001	1.24E+001	1.23E+000
1.41E+001	1.48E+001	1.28E+000