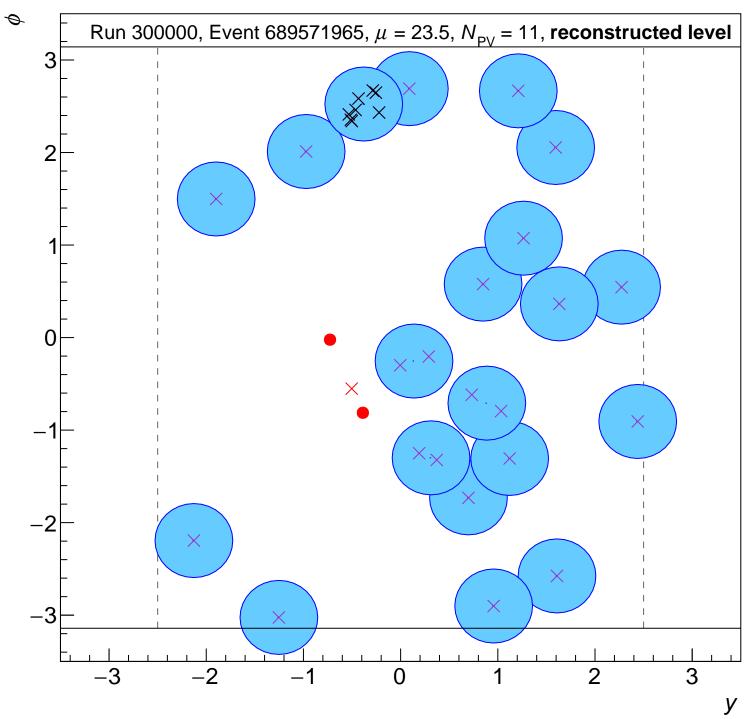
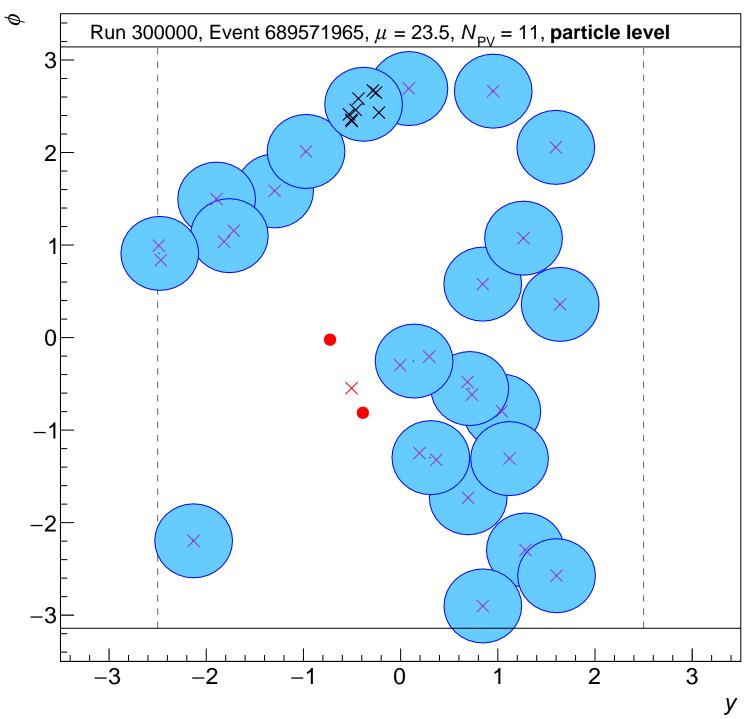
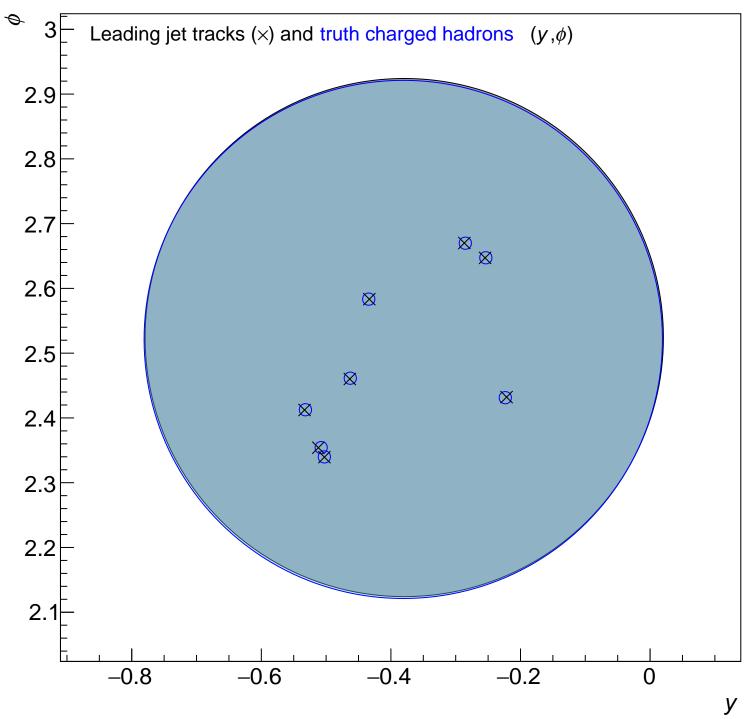
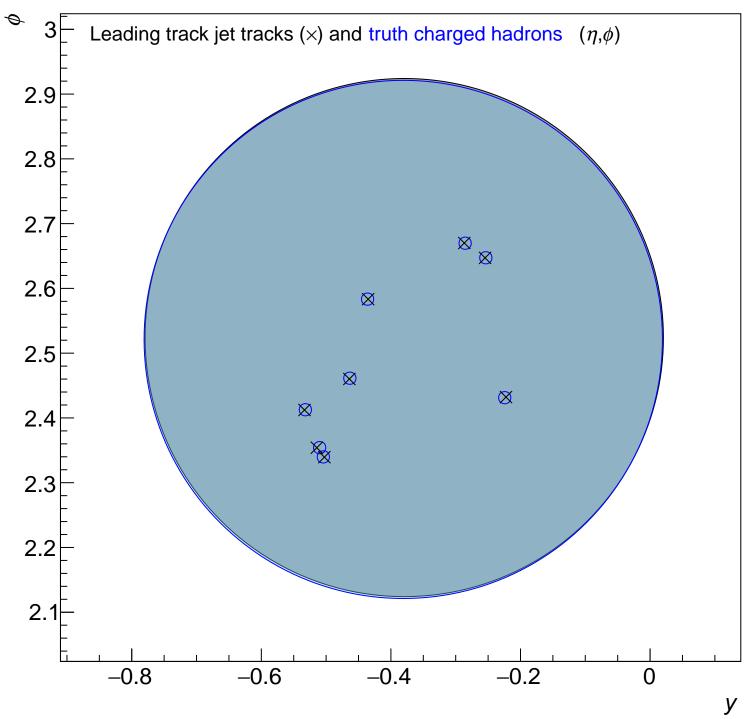


```
Run 300000, Event 689569132, \mu = 62.5, N_{pv} = 31
                                                                              (0.6, -3.02, 0.82)
Truth (m_{\parallel}, p_{\parallel}, y_{\parallel}) = (91.3, 210.7, -0.40)
                                                                              (0.6, -6.29, -1.09)
Reco (m_{\parallel}, p_{\parallel}^{n,n}, y_{\parallel}^{n}) = (91.3, 206.9, -0.40)
                                                                              (0.6, 4.16, 1.32)
\Delta \phi(\text{II}, \text{j1}) = -3.03, \ \Delta R_{\text{i1}}^{\text{tru-rec}} = 0.01
                                                                              (0.6, -3.36, 1.82)
2 truth muons, (\rho_{\downarrow}/\text{GeV}, y, \phi)
                                                                              (0.6, 3.41, -1.83)
                                                                              (0.6, -1.70, 1.95)
 (194.1, -0.39, 1.89)
 (35.5, -0.42, 3.06)
                                                                              (0.6, 2.98, -2.85)
                                                                              (0.5, 3.14, 1.45)
2 reco muons, (p_{\downarrow}/\text{GeV}, y, \phi)
 (189.8, -0.39, 1.89)
                                                                              (0.5, -0.78, -0.42)
                                                                            16 reco jets, (p_{\perp}/\text{GeV}, y, \phi)
 (36.3, -0.42, 3.06)
36 truth jets, (p_{\tau}/\text{GeV}, y, \phi)
                                                                              (134.5, 0.47, -1.20)
 (137.0, 0.47, -1.20)
                                                                              (4.6, -2.47, 0.23)
 (18.0, 1.74, 1.71)
                                                                              (3.8, 0.49, -1.69)
 (7.9, -2.62, 0.18)
                                                                              (2.2, 1.60, -2.96)
 (5.3, 0.37, -1.65)
                                                                              (1.1, 2.36, -1.56)
 (2.6, 5.28, -1.27)
                                                                              (0.8, 2.38, 0.87)
 (2.3, 1.46, 2.17)
                                                                              (0.8, 0.87, -0.25)
 (2.1, -2.87, 1.20)
                                                                              (0.7, 1.73, 1.40)
 (2.1, 2.43, 1.67)
                                                                              (0.7, -1.35, 2.71)
 (2.1, -4.75, -1.36)
                                                                              (0.7, -0.52, -3.06)
 (1.6, 2.70, 2.13)
                                                                              (0.7, 2.41, -0.29)
 (1.6, 2.65, 1.25)
                                                                              (0.7, 0.97, -2.29)
 (1.5, -6.14, -2.27)
                                                                              (0.6, -1.70, 1.96)
 (1.4, -3.46, -2.19)
                                                                              (0.5, -0.78, -0.42)
 (1.4, 4.19, -2.20)
                                                                              (0.5, 1.90, 2.11)
 (1.3, 5.04, -1.64)
                                                                              (0.5, 2.34, 0.22)
 (1.1, -4.61, -2.21)
                                                                            40 charged truth hadrons, \rho_{\downarrow}>0.5, |y|<2.5
 (0.9, 3.39, 2.10)
                                                                              (24.2, 0.44, -1.21)
 (0.9, 2.39, 0.87)
                                                                              (15.0, 0.47, -1.19)
 (0.8, -5.97, -0.59)
                                                                            37 tracks, first 4
                                                                              (24.1, 0.44, -1.21), matched to \pi^+
 (0.7, 0.87, -0.25)
 (0.7, -1.35, 2.71)
                                                                              (15.2, 0.45, -1.19), matched to \pi^+
                                                                              (13.9, 0.41, -1.22), matched to p
 (0.7, 0.97, -2.29)
 (0.7, -0.44, -3.05)
                                                                              (13.4, 0.47, -1.19), matched to \pi^-
                                                                            20 j1 tracks, (p_{\tau}/\text{GeV}, y, \eta, \phi)
 (0.7, 2.40, -0.30)
 (0.7, -3.55, -0.96)
                                                                              (1.5, 0.28, 0.28, -1.50),
 (0.7, -5.42, -2.28)
                                                                              (0.6, 0.22, 0.23, -1.41),
 (0.6, 8.39, -0.79)
                                                                              (4.3, 0.64, 0.64, -1.12),
                                                                              (6.8, 0.61, 0.61, -1.08),
                                                                              (CC \cap CO \cap CO \land OT)
```

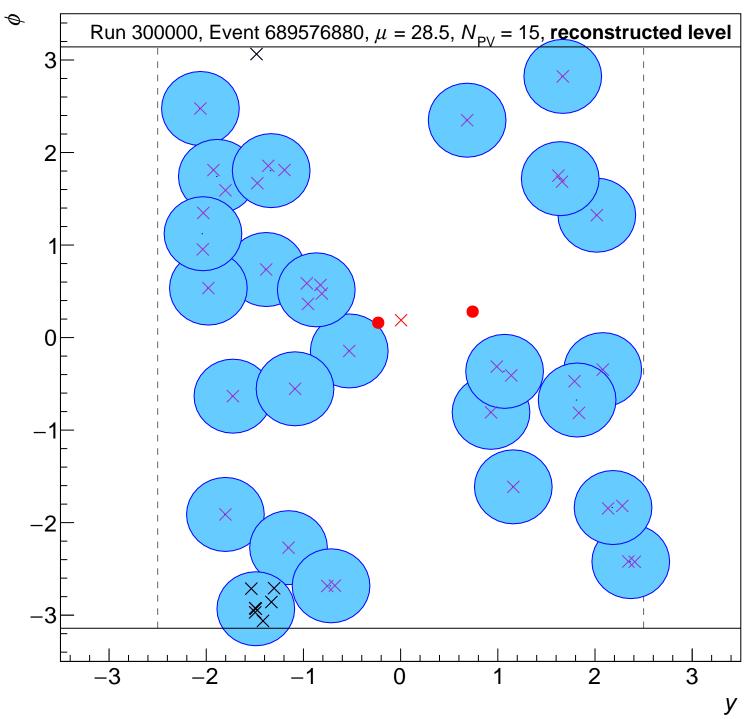


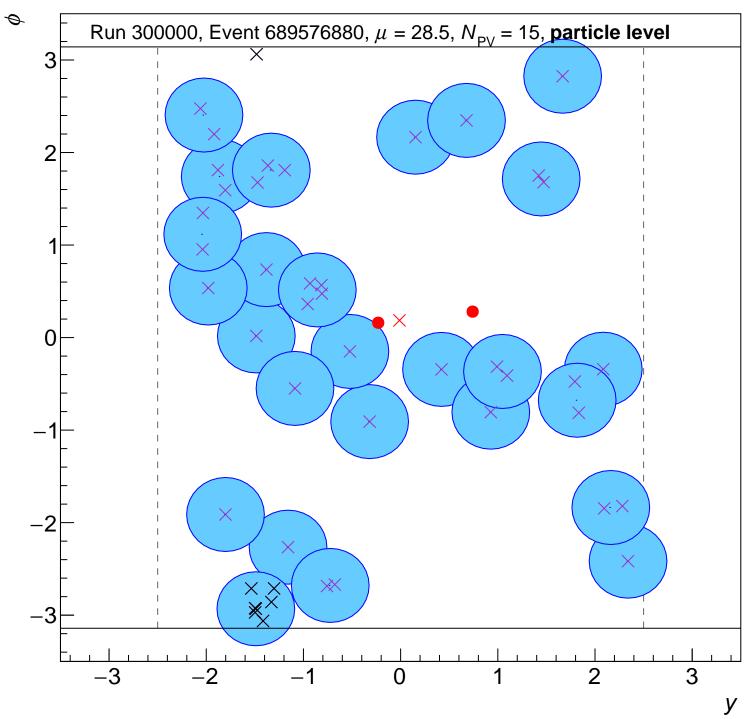


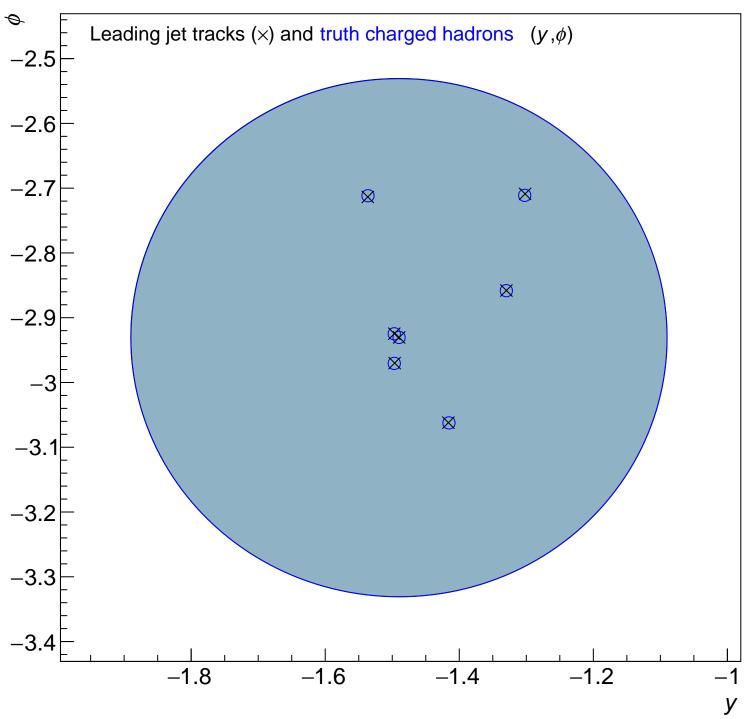


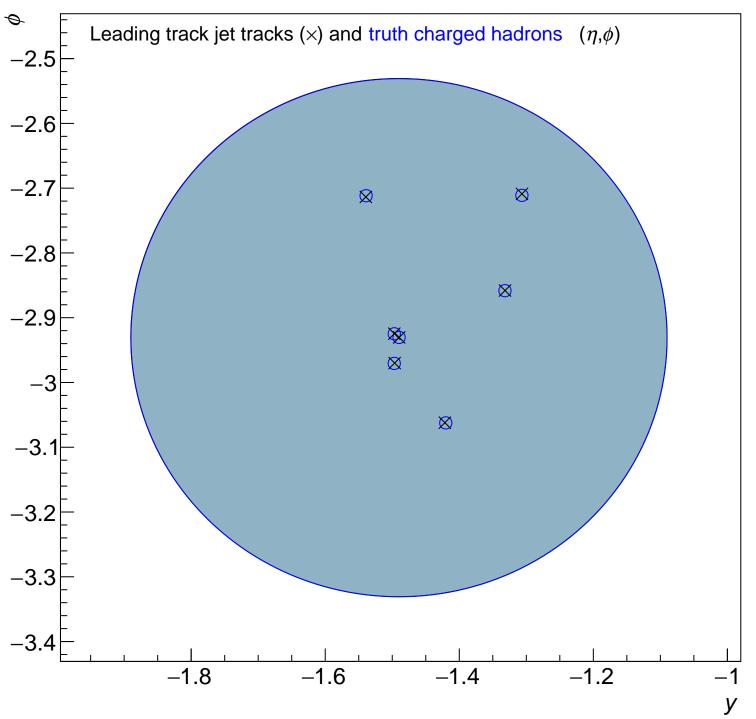


```
Run 300000, Event 689571965, \mu = 23.5, N_{pv} = 11
                                                                             (1.0, -3.85, -0.03)
Truth (m_{\parallel}, p_{\parallel}, y_{\parallel}) = (91.0, 212.2, -0.51)
                                                                             (1.0, 0.09, 2.69)
Reco (m_{\parallel}, p_{\parallel}, y_{\parallel}) = (94.0, 220.0, -0.50)
                                                                             (1.0, 0.95, 2.66)
\Delta \phi(\text{II,j1}) = -3.08, \ \Delta R_{\text{i1}}^{\text{tru-rec}} = 0.00
                                                                             (0.9, -4.38, -0.60)
2 truth muons, (\rho_{\downarrow}/\text{GeV}, y, \phi)
                                                                             (0.8, 0.84, 0.58)
 (149.6, -0.39, -0.81)
                                                                             (0.8, 5.11, 2.88)
 (78.3, -0.73, -0.02)
                                                                             (0.7, 1.64, 0.36)
2 reco muons, (p_{\downarrow}/\text{GeV}, y, \phi)
                                                                             (0.7, 1.60, 2.06)
 (156.3, -0.39, -0.81)
                                                                             (0.7, 1.28, -2.30)
                                                                             (0.6, 4.16, -1.04)
 (79.8, -0.73, -0.02)
46 truth jets, (p_{\perp}/\text{GeV}, y, \phi)
                                                                             (0.6, -8.11, 0.37)
 (49.6, -0.38, 2.52)
                                                                             (0.6, 0.70, -1.73)
 (4.6, -3.66, -0.41)
                                                                             (0.6, 1.04, -0.80)
 (4.1, 4.59, -1.10)
                                                                             (0.6, -2.92, -3.04)
 (3.1, -3.30, 0.40)
                                                                             (0.6, -2.13, -2.20)
 (2.7, 1.26, 1.07)
                                                                             (0.6, -7.56, -0.74)
 (2.5, 3.03, 1.06)
                                                                             (0.5, -5.93, 2.67)
 (2.4, 3.30, 2.19)
                                                                             (0.5, -1.30, 1.59)
 (2.2, 5.33, 2.40)
                                                                             (0.5, 5.34, -2.45)
                                                                           20 reco jets, (p_{\downarrow}/\text{GeV}, y, \phi)
 (2.0, 4.29, 1.57)
 (2.0, 0.31, -1.30)
                                                                             (48.9, -0.38, 2.52)
 (1.9, -2.89, 0.82)
                                                                             (2.7, 1.26, 1.07)
 (1.8, 3.86, -1.55)
                                                                             (2.0, 0.31, -1.30)
                                                                             (1.6, 0.96, -2.90)
 (1.8, -2.48, 0.91)
 (1.7, -2.99, -0.15)
                                                                             (1.5, -1.90, 1.50)
 (1.5, 4.45, -2.71)
                                                                             (1.5, 0.14, -0.25)
 (1.5, 0.85, -2.90)
                                                                             (1.3, -1.25, -3.02)
 (1.5, 0.14, -0.25)
                                                                             (1.1, 1.61, -2.58)
 (1.5, -1.76, 1.10)
                                                                             (1.1, 0.89, -0.71)
 (1.5, -1.89, 1.50)
                                                                             (1.1, -0.97, 2.01)
 (1.3, 5.33, -2.94)
                                                                             (1.0, 1.12, -1.31)
 (1.2, 3.21, -0.83)
                                                                             (1.0, 0.09, 2.69)
 (1.2, 3.58, 1.84)
                                                                             (0.9, 1.21, 2.67)
 (1.1, 1.60, -2.57)
                                                                             (0.9, 2.44, -0.91)
 (1.1, -0.97, 2.01)
                                                                             (0.8, 0.85, 0.58)
 (1.1, 3.68, 0.98)
                                                                             (0.7, 1.63, 0.36)
 (1.0, 0.71, -0.55)
                                                                             (0.7, 1.60, 2.05)
 (1.0, 1.12, -1.31)
                                                                             (0.7, 2.27, 0.54)
                                                                             (0.6, 0.70, -1.73)
                                                                             (0 6 2 42 2 40)
```

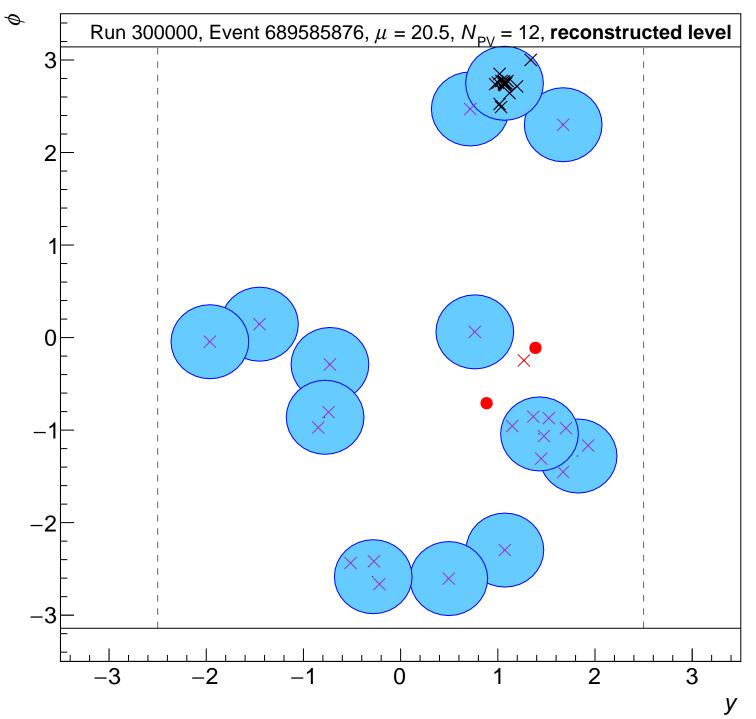


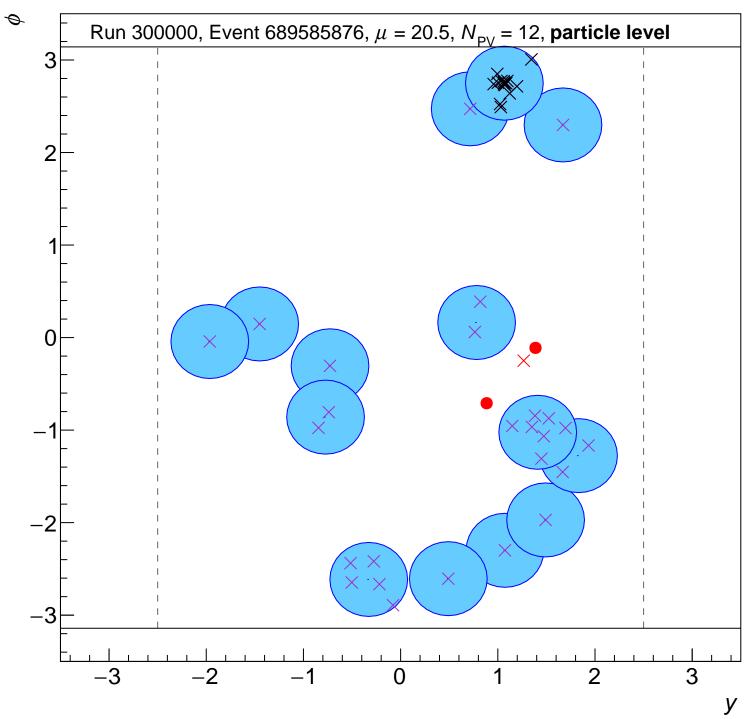


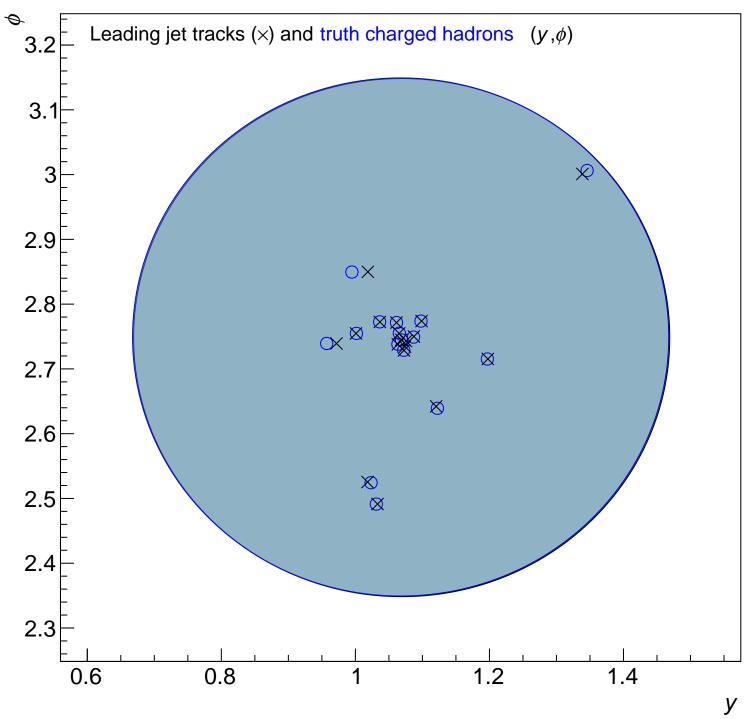


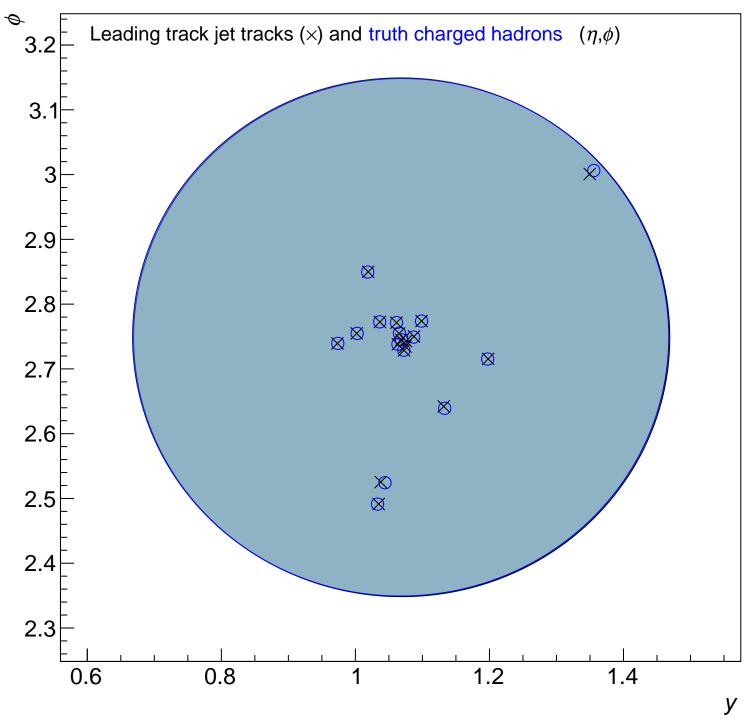


```
Run 300000, Event 689576880, \mu = 28.5, N_{pv} = 15
                                                                            (0.7, -1.16, -2.26)
Truth (m_{\parallel}, p_{\parallel}, y_{\parallel}) = (89.9, 216.6, -0.01)
                                                                            (0.7, -3.80, 0.58)
Reco (m_{\parallel}, p_{\parallel}, y_{\parallel}) = (85.0, 199.0, 0.00)
                                                                            (0.7, 7.95, 2.47)
\Delta \phi(\text{II,j1}) = 3.12, \ \Delta R_{\text{i1}}^{\text{tru-rec}} = 0.00
                                                                            (0.7, -7.94, 0.42)
2 truth muons, (p_{\perp}/\text{GeV}, y, \phi)
                                                                            (0.7, -4.36, 2.95)
 (171.2, -0.23, 0.16)
                                                                            (0.6, -5.56, 1.07)
 (45.7, 0.74, 0.28)
                                                                            (0.6, 1.67, 2.82)
2 reco muons, (p_{\downarrow}/\text{GeV}, y, \phi)
                                                                            (0.6, 0.15, 2.17)
 (153.9, -0.23, 0.16)
                                                                            (0.6, -0.52, -0.15)
 (45.3, 0.74, 0.28)
                                                                            (0.5, -0.32, -0.91)
42 truth jets, (p_{\tau}/\text{GeV}, y, \phi)
                                                                            (0.5, -4.09, -0.71)
 (199.7, -1.49, -2.93)
                                                                            (0.5, -1.48, 0.02)
 (13.3, -0.86, 0.51)
                                                                            (0.5, -3.07, -0.86)
 (3.9, -2.04, 1.12)
                                                                            (0.5, -3.69, -1.17)
 (3.4, -1.33, 1.81)
                                                                            (0.5, 0.42, -0.34)
                                                                           25 reco jets, (p_{\tau}/\text{GeV}, y, \phi)
 (2.7, -2.02, 2.41)
 (2.6, 1.05, -0.37)
                                                                            (205.1, -1.49, -2.93)
 (2.5, 2.16, -1.84)
                                                                            (13.9, -0.87, 0.52)
 (2.3, 1.82, -0.68)
                                                                            (3.9, -2.03, 1.12)
 (2.2, -1.86, 1.74)
                                                                            (3.4, -1.33, 1.80)
 (2.1, -0.72, -2.68)
                                                                            (2.7, 2.19, -1.84)
 (1.6, -1.98, 0.54)
                                                                            (2.6, 1.07, -0.37)
 (1.5, -1.38, 0.73)
                                                                            (2.4, -0.72, -2.68)
 (1.3, -4.57, 2.46)
                                                                            (2.3, 1.82, -0.67)
 (1.3, 1.45, 1.71)
                                                                            (2.1, -1.89, 1.74)
 (1.3, 5.43, 0.64)
                                                                            (2.0, -2.06, 2.48)
 (1.2, -1.09, -0.55)
                                                                            (1.7, 2.37, -2.42)
 (1.2, -4.57, -1.59)
                                                                            (1.6, -1.98, 0.54)
 (1.2, 3.87, -2.27)
                                                                            (1.5, -1.38, 0.74)
 (1.0, 0.68, 2.35)
                                                                            (1.3, 1.64, 1.72)
 (1.0, 4.83, 1.25)
                                                                            (1.2, -1.09, -0.55)
 (1.0, 2.34, -2.42)
                                                                            (1.1, -1.73, -0.63)
 (0.9, -3.35, -2.01)
                                                                            (1.0, 0.68, 2.35)
 (0.8, 0.93, -0.81)
                                                                            (0.8, 2.08, -0.35)
 (0.8, 7.09, 2.82)
                                                                            (0.8, 0.93, -0.81)
                                                                            (0.7, -1.15, -2.27)
 (0.8, -8.04, -2.06)
 (0.8, -1.80, -1.91)
                                                                            (0.7, -1.80, -1.91)
 (0.8, 2.09, -0.34)
                                                                            (0.6, 1.67, 2.82)
                                                                            (0.6, 2.02, 1.32)
                                                                            (0.6 \ 0.52 \ 0.44)
```

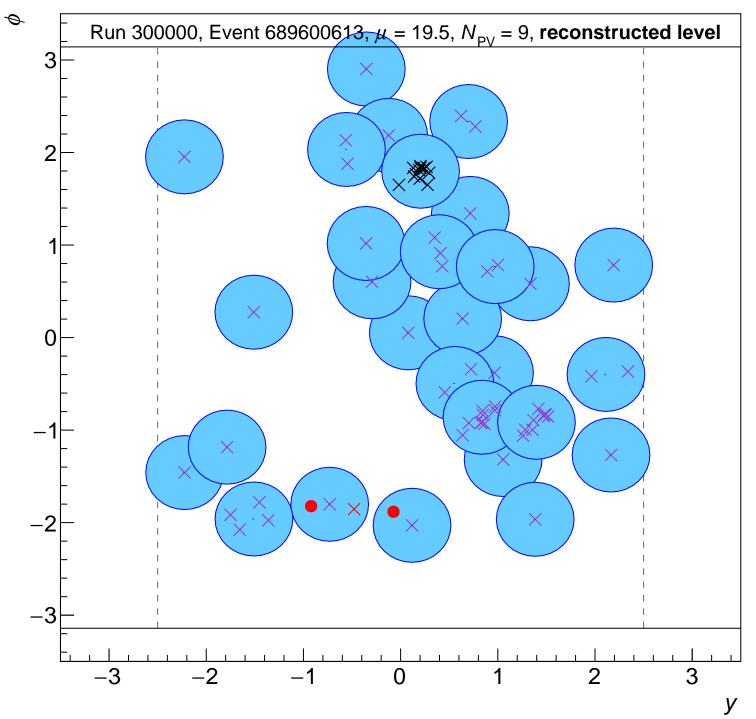


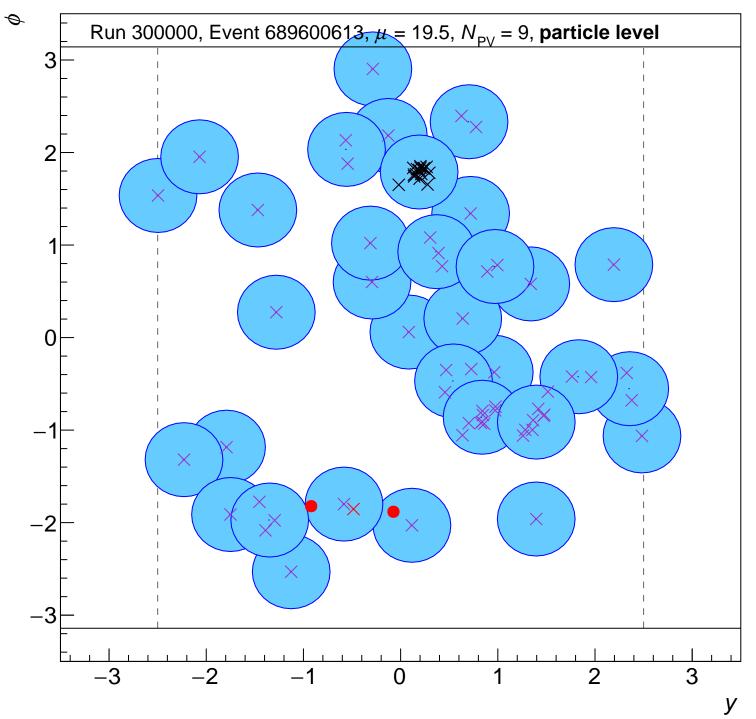


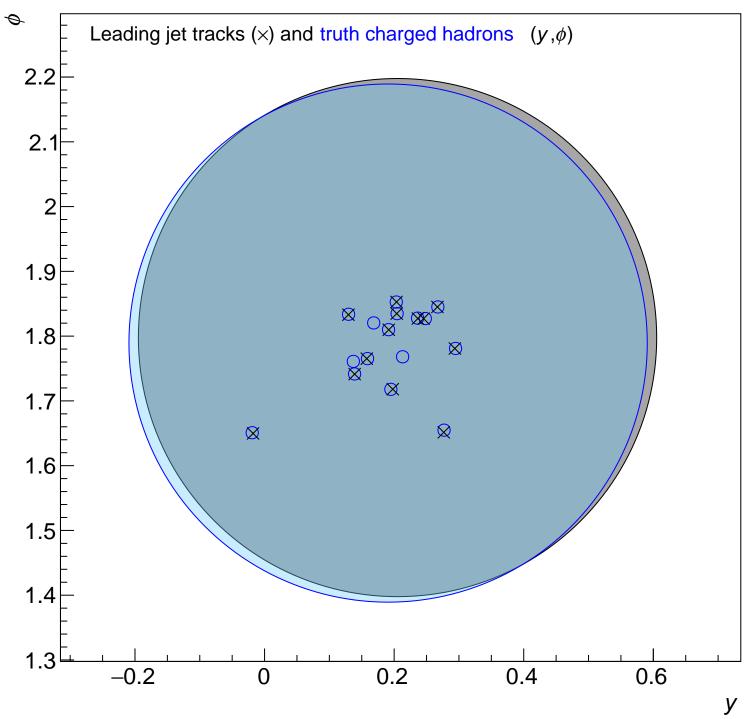


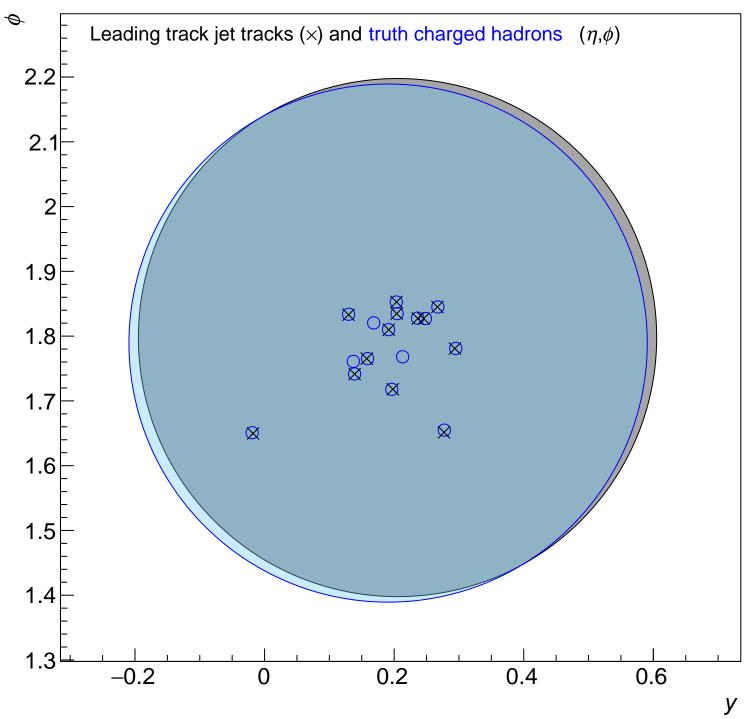


```
Run 300000, Event 689585876, \mu = 20.5, N_{pv} = 12
                                                                             (5.3, -0.78, -0.86)
Truth (m_{\parallel}, p_{\parallel}, y_{\parallel}) = (90.5, 264.9, 1.27)
                                                                            (2.1, -1.96, -0.04)
Reco (m_{\parallel}, p_{\parallel}^{m}, y_{\parallel}^{m}) = (88.1, 259.2, 1.27)
                                                                             (1.9, 1.83, -1.28)
\Delta \phi(\text{II,j1}) = -3.00, \ \Delta R_{\text{j1}}^{\text{tru-rec}} = 0.00
                                                                             (1.6, -1.45, 0.14)
2 truth muons, (\rho_{\downarrow}/\text{GeV}, y, \phi)
                                                                             (1.4, 1.67, 2.30)
 (208.8, 1.39, -0.11)
                                                                             (1.3, 0.50, -2.60)
 (64.9, 0.89, -0.71)
                                                                             (1.1, 0.72, 2.47)
2 reco muons, (p_{\downarrow}/\text{GeV}, y, \phi)
                                                                             (1.1, 0.76, 0.06)
 (205.1, 1.39, -0.11)
                                                                             (0.8, 1.07, -2.30)
 (62.5, 0.88, -0.71)
                                                                             (0.7, -0.73, -0.29)
23 truth jets, (p_{\tau}/\text{GeV}, y, \phi)
                                                                           42 charged truth hadrons, p_{\pm}>0.5, |y|<2.5
 (192.5, 1.07, 2.75)
                                                                             (66.9, 1.06, 2.74)
 (16.2, 1.41, -1.02)
                                                                             (22.2, 1.07, 2.74)
 (14.9, -0.33, -2.61)
                                                                           39 tracks, first 4
 (5.4, -0.77, -0.86)
                                                                             (63.3, 1.06, 2.74), matched to \bar{p}
 (2.2, -1.96, -0.04)
                                                                             (23.2, 1.07, 2.74), matched to \pi^-
 (1.9, 1.83, -1.28)
                                                                             (20.4, 1.06, 2.77), matched to \pi^+
 (1.6, -1.45, 0.15)
                                                                             (19.9, 1.10, 2.77), matched to p
                                                                           18 j1 tracks, (p_{\tau}/\text{GeV}, y, \eta, \phi)
 (1.6, 0.78, 0.16)
 (1.3, 1.67, 2.30)
                                                                             (0.9, 1.34, 1.35, 3.00),
 (1.2, 0.49, -2.61)
                                                                             (2.1, 1.03, 1.03, 2.49),
 (1.1, 0.72, 2.47)
                                                                             (0.6, 1.02, 1.04, 2.53),
 (1.1, 1.49, -1.97)
                                                                             (4.4, 1.20, 1.20, 2.72),
 (1.0, 2.84, 0.30)
                                                                             (0.8, 1.12, 1.13, 2.64),
 (0.9, -6.04, -1.66)
                                                                             (3.6, 1.02, 1.02, 2.85),
 (0.8, 1.07, -2.30)
                                                                             (2.3, 0.97, 0.97, 2.74),
 (0.8, -2.58, -1.47)
                                                                             (2.7, 1.00, 1.00, 2.75),
 (0.7, -0.73, -0.31)
                                                                             (19.9, 1.10, 1.10, 2.77),
 (0.6, -2.74, -0.33)
                                                                             (15.4, 1.04, 1.04, 2.77),
 (0.6, 7.73, -2.33)
                                                                             (20.4, 1.06, 1.06, 2.77),
 (0.6, 4.74, -1.25)
                                                                             (8.5, 1.09, 1.09, 2.75),
 (0.5, -3.52, -1.40)
                                                                             (10.1, 1.07, 1.07, 2.75),
 (0.5, -8.43, 0.38)
                                                                             (11.2, 1.07, 1.07, 2.73),
 (0.5, 5.19, -2.34)
                                                                             (18.7, 1.08, 1.08, 2.74),
13 reco jets, (p_{\tau}/\text{GeV}, y, \phi)
                                                                             (3.4, 1.07, 1.07, 2.73),
 (211.3, 1.07, 2.75)
                                                                             (63.3, 1.06, 1.06, 2.74),
 (12.6, 1.43, -1.04)
                                                                             (23.2, 1.07, 1.07, 2.74),
                                                                           16 j1 charged hadrons, (\rho_{\perp}/\text{GeV}, y, \eta, \phi)
 (10.6, -0.28, -2.58)
                                                                             (0.9, 1.35, 1.36, 3.01), \pi^{-}
                                                                             (2 4 4 02 4 02 2 40) -+
```

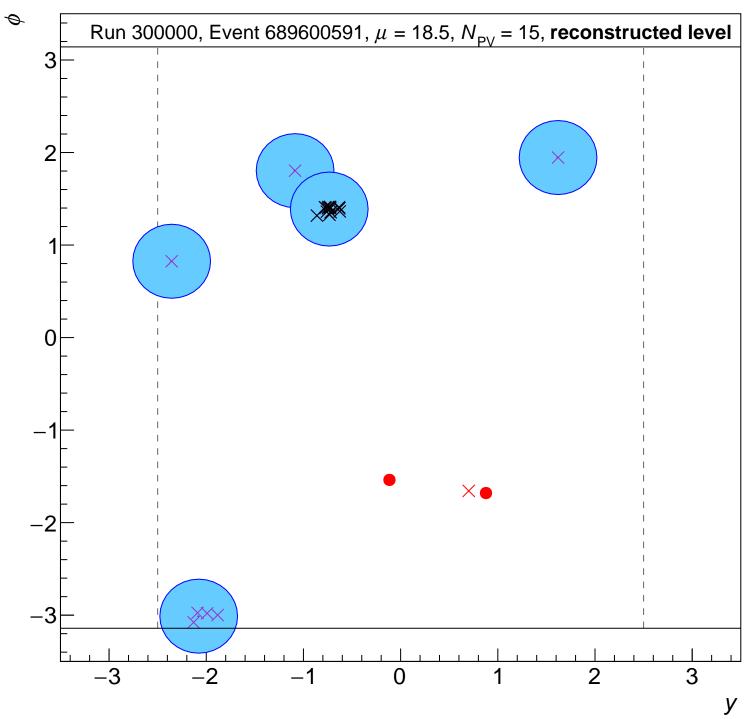


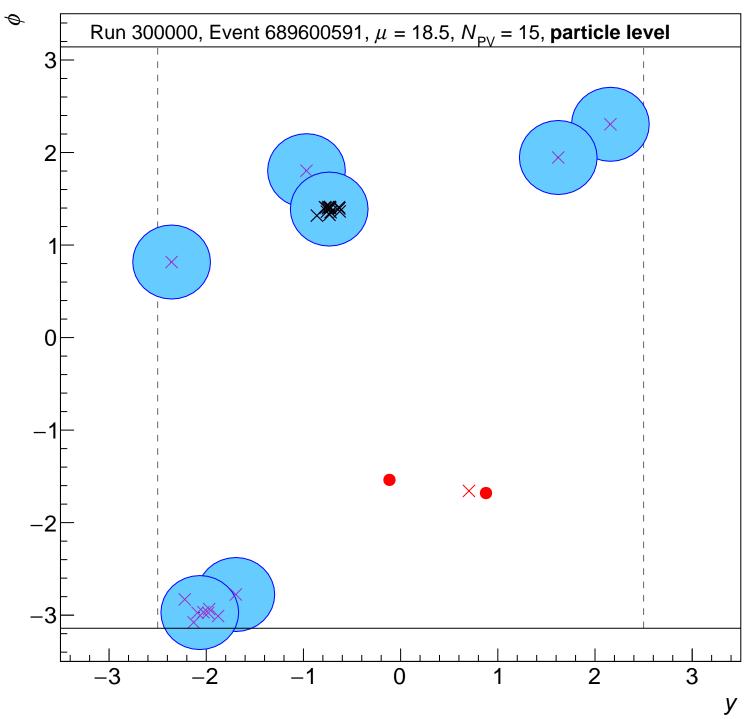


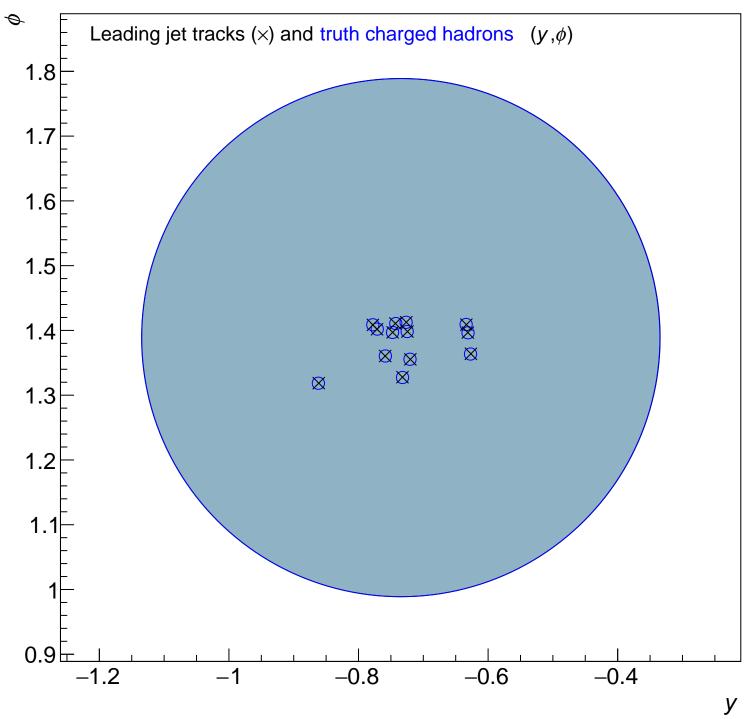


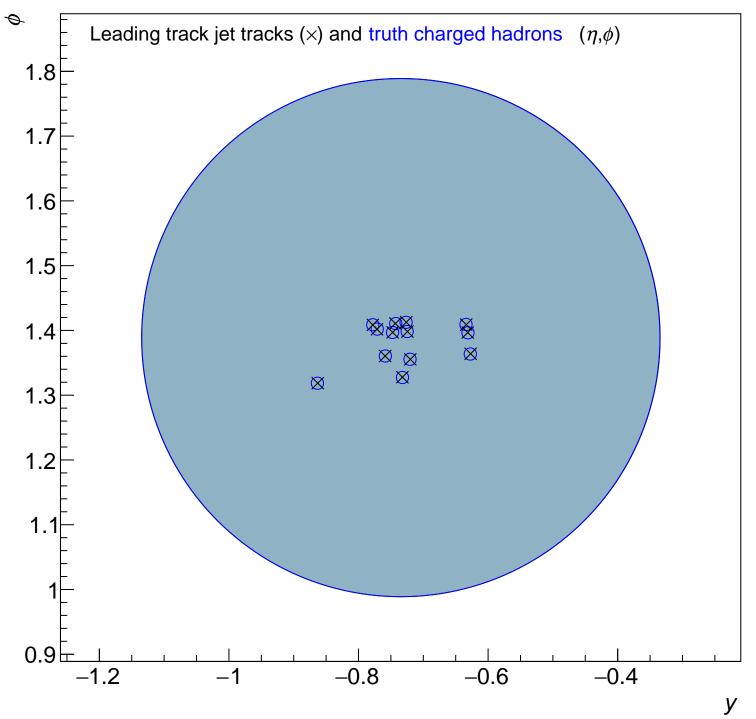


```
Run 300000, Event 689600613, \mu = 19.5, N_{\rm pv} = 9
                                                                             (1.1, -1.47, 1.38)
Truth (m_{\parallel}, p_{\parallel}, y_{\parallel}) = (90.2, 206.4, -0.49)
                                                                             (1.1, -2.50, 1.54)
Reco (m_{\parallel}, p_{\parallel}^{n,n}, y_{\parallel}^{n}) = (90.9, 207.9, -0.48)
                                                                             (1.1, -1.28, 0.27)
\Delta \phi(\text{II,j1}) = 2.63, \ \Delta R_{\text{i1}}^{\text{tru-rec}} = 0.02
                                                                             (1.1, -0.58, -1.80)
2 truth muons, (p_{\downarrow}/\text{GeV}, y, \phi)
                                                                             (1.1, -2.72, -0.58)
                                                                             (1.1, -1.75, -1.91)
 (106.4, -0.07, -1.88)
 (100.1, -0.92, -1.82)
                                                                             (1.0, -4.85, 0.32)
2 reco muons, (p_{\downarrow}/\text{GeV}, y, \phi)
                                                                             (0.9, 0.96, -0.37)
 (108.8, -0.07, -1.88)
                                                                             (0.9, 1.34, 0.58)
 (99.2, -0.92, -1.82)
                                                                             (0.9, -4.08, -2.46)
65 truth jets, (p_{\perp}/\text{GeV}, y, \phi)
                                                                             (0.9, -2.78, 2.91)
 (200.5, 0.19, 1.79)
                                                                             (0.8, -0.31, 1.02)
 (78.2, 1.40, -0.91)
                                                                             (0.8, 0.72, 1.34)
 (16.8, 0.84, -0.86)
                                                                             (0.8, -5.82, 2.72)
 (5.6, 0.97, 0.77)
                                                                             (0.8, -4.27, 1.54)
 (4.1, 2.19, 0.79)
                                                                             (0.7, 6.57, -2.77)
 (4.0, -1.35, -1.97)
                                                                             (0.7, -1.13, -2.53)
 (3.3, 1.83, -0.42)
                                                                             (0.7, -2.23, -1.32)
                                                                             (0.7, -6.76, 2.00)
 (2.8, 0.54, -0.47)
                                                                             (0.7, -3.93, -2.06)
 (2.7, 0.37, 0.93)
 (2.2, 0.64, 0.21)
                                                                             (0.7, 1.40, -1.96)
 (2.2, 3.30, -2.59)
                                                                             (0.7, 2.74, 0.03)
 (1.8, -4.68, -2.59)
                                                                             (0.6, -5.03, -1.37)
 (1.8, -0.56, 2.03)
                                                                             (0.6, 7.22, -2.21)
 (1.7, -4.42, 0.15)
                                                                             (0.6, -0.29, 0.60)
 (1.7, -3.85, -0.25)
                                                                             (0.6, 4.29, -0.01)
 (1.6, -5.66, 1.25)
                                                                             (0.6, -6.44, 1.48)
 (1.6, 3.30, -3.12)
                                                                             (0.6, -1.79, -1.18)
 (1.5, -2.07, 1.95)
                                                                             (0.6, 4.87, -0.54)
 (1.4, -0.13, 2.18)
                                                                             (0.6, 4.25, -1.32)
 (1.4, 2.36, -0.55)
                                                                             (0.6, 2.48, -1.06)
 (1.3, 6.64, -0.75)
                                                                             (0.6, 6.76, -2.10)
 (1.3, 6.75, -0.09)
                                                                             (0.6, -3.14, -2.39)
 (1.2, -2.63, -1.73)
                                                                             (0.6, 4.03, 0.42)
 (1.2, 7.48, 2.55)
                                                                             (0.5, 0.12, -2.03)
 (1.2, -0.29, 2.90)
                                                                             (0.5, 5.20, -2.07)
 (1.2, 0.70, 2.33)
                                                                             (0.5, 0.08, 0.06)
 (1.2, 2.78, -2.17)
                                                                             (0.5, 3.13, 2.75)
                                                                           29 reco jets, (p_{\tau}/\text{GeV}, y, \phi)
                                                                             (44440001400)
```

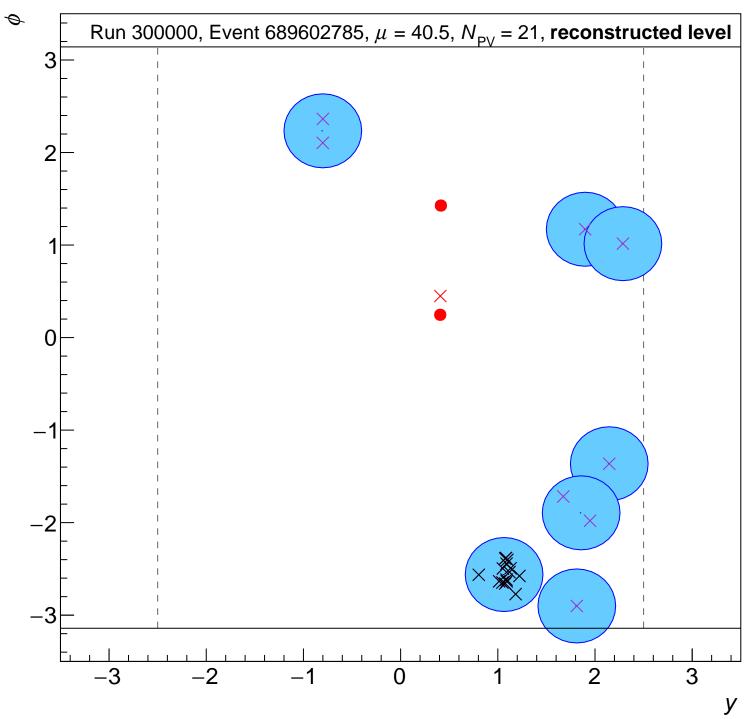


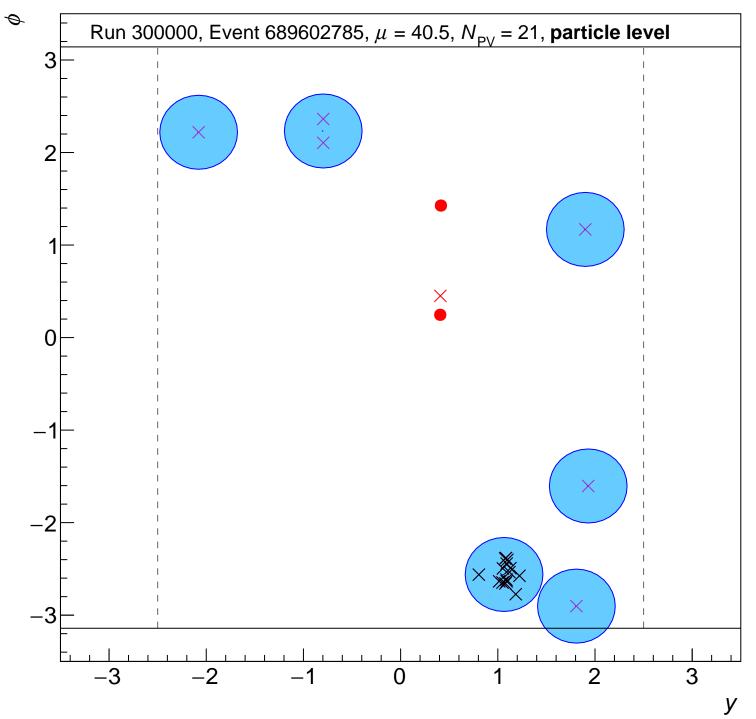


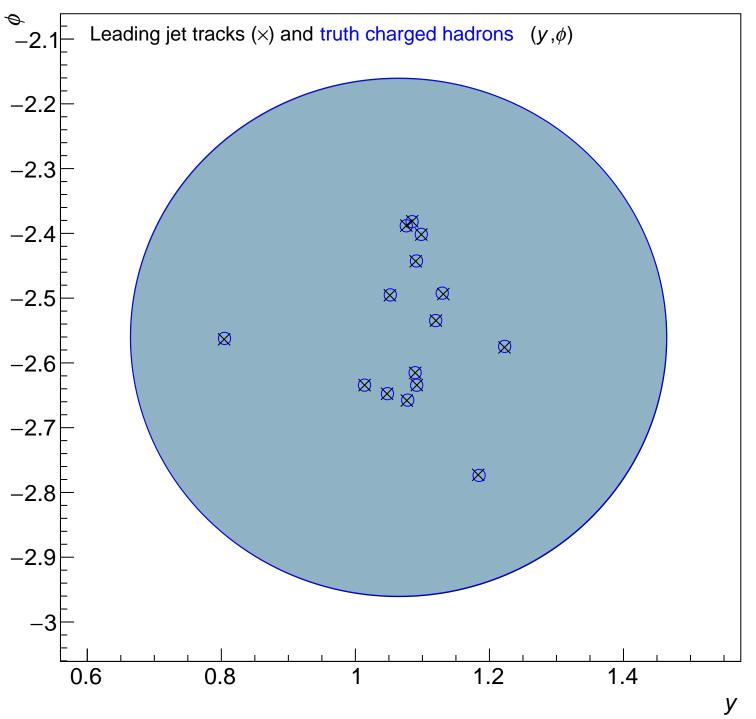


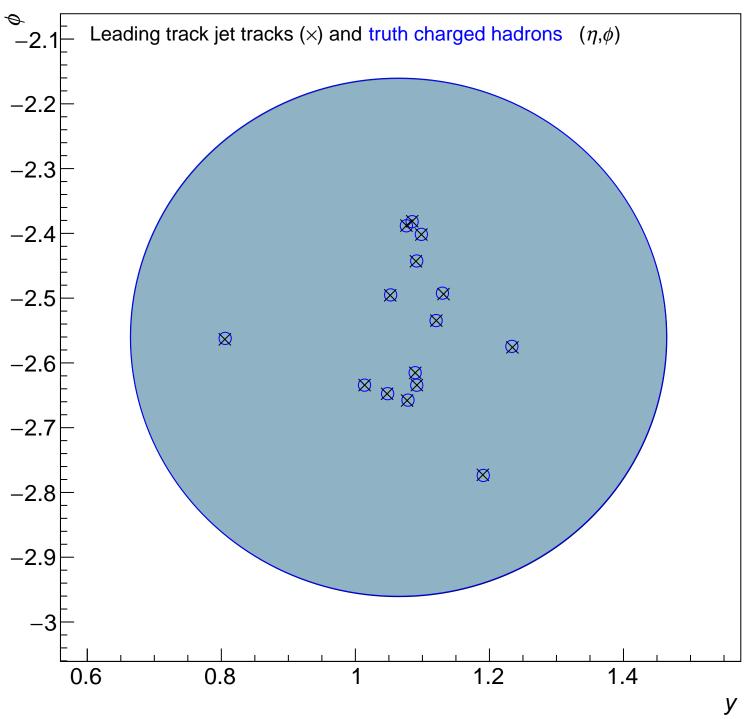


```
Run 300000, Event 689600591, \mu = 18.5, N_{pv} = 15
                                                                               (21.0, -0.72, 1.36), matched to \pi^-
Truth (m_{\parallel}, p_{\parallel}, y_{\parallel}) = (90.2, 234.2, 0.70)
                                                                               (17.8, -0.72, 1.40), matched to \pi^-
Reco (m_{\parallel}, p_{\parallel}, y_{\parallel}) = (84.3, 217.8, 0.70)
                                                                               (15.0, -0.74, 1.41), matched to \pi^-
\Delta \phi(\text{II,j1}) = -3.05, \ \Delta R_{\text{i1}}^{\text{tru-rec}} = 0.00
                                                                              13 j1 tracks, (p_{\tau}/\text{GeV}, y, \eta, \phi)
2 truth muons, (\rho_{\downarrow}/\text{GeV}, y, \phi)
                                                                               (2.1, -0.86, -0.86, 1.32),
 (196.5, 0.88, -1.68)
                                                                               (3.8, -0.63, -0.63, 1.36),
 (38.0, -0.11, -1.54)
                                                                               (7.1, -0.63, -0.63, 1.40),
2 reco muons, (\rho_{\downarrow}/\text{GeV}, y, \phi)
                                                                               (5.1, -0.63, -0.63, 1.41),
 (182.4, 0.88, -1.68)
                                                                               (7.8, -0.73, -0.73, 1.33),
 (35.7, -0.12, -1.54)
                                                                               (21.0, -0.72, -0.72, 1.36),
16 truth jets, (p_{\perp}/\text{GeV}, y, \phi)
                                                                               (11.2, -0.76, -0.76, 1.36),
 (171.4, -0.73, 1.39)
                                                                               (15.0, -0.78, -0.78, 1.41),
                                                                               (12.7, -0.77, -0.77, 1.40),
 (15.3, -2.07, -2.97)
 (1.4, 1.62, 1.95)
                                                                               (14.1, -0.73, -0.73, 1.41),
                                                                               (17.8, -0.72, -0.72, 1.40),
 (1.2, -5.51, 2.52)
                                                                               (38.1, -0.75, -0.75, 1.40),
 (0.9, -3.85, -2.50)
 (0.9, -2.36, 0.82)
                                                                               (15.0, -0.74, -0.74, 1.41),
                                                                              13 j1 charged hadrons, (\rho_{\perp}/\text{GeV}, y, \eta, \phi)
 (0.8, 5.78, 0.98)
 (0.8, -0.97, 1.80)
                                                                               (2.1, -0.86, -0.86, 1.32), \pi^{-}
 (0.8, 2.16, 2.30)
                                                                               (3.8, -0.63, -0.63, 1.36), \pi^+
                                                                               (6.9, -0.63, -0.63, 1.40), \pi^+
 (0.7, -2.83, 2.53)
 (0.6, 4.27, -2.22)
                                                                               (4.9, -0.63, -0.63, 1.41), \pi^{+}
 (0.6, -3.90, 2.83)
                                                                               (8.0, -0.73, -0.73, 1.33), \pi^+
 (0.6, -5.46, -0.11)
                                                                               (21.4, -0.72, -0.72, 1.36), \pi^{-}
                                                                               (10.9, -0.76, -0.76, 1.36), \pi^+
 (0.5, -1.70, -2.78)
 (0.5, -5.43, 2.01)
                                                                               (15.4, -0.78, -0.78, 1.41), \pi^{-}
 (0.5, 8.29, 1.91)
                                                                               (12.8, -0.77, -0.77, 1.40), \pi^{-}
5 reco jets, (p_{\downarrow}/\text{GeV}, y, \phi)
                                                                               (14.2, -0.73, -0.73, 1.41), \pi^{-}
 (170.7, -0.73, 1.39)
                                                                               (18.1, -0.72, -0.72, 1.40), \pi^{-}
                                                                               (37.3, -0.75, -0.75, 1.40), \pi^+
 (7.5, -2.08, -3.01)
                                                                               (15.4, -0.74, -0.74, 1.41), \pi^{-}
 (1.3, 1.62, 1.95)
 (1.0, -2.36, 0.82)
 (0.8, -1.09, 1.80)
25 charged truth hadrons, p_{\pm}>0.5, |y|<2.5
 (37.3, -0.75, 1.40)
 (21.4, -0.72, 1.36)
20 tracks, first 4
 (38.1, -0.75, 1.40), matched to \pi^+
```

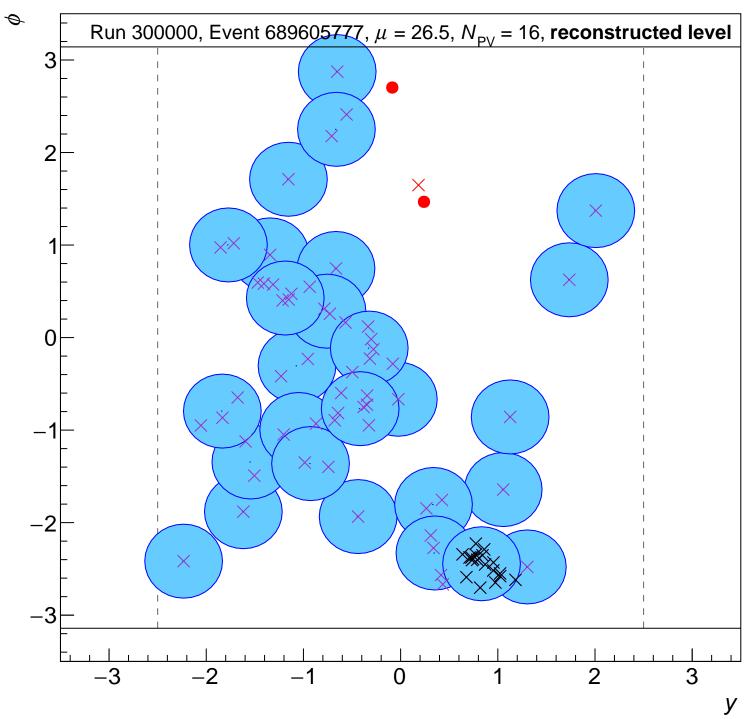


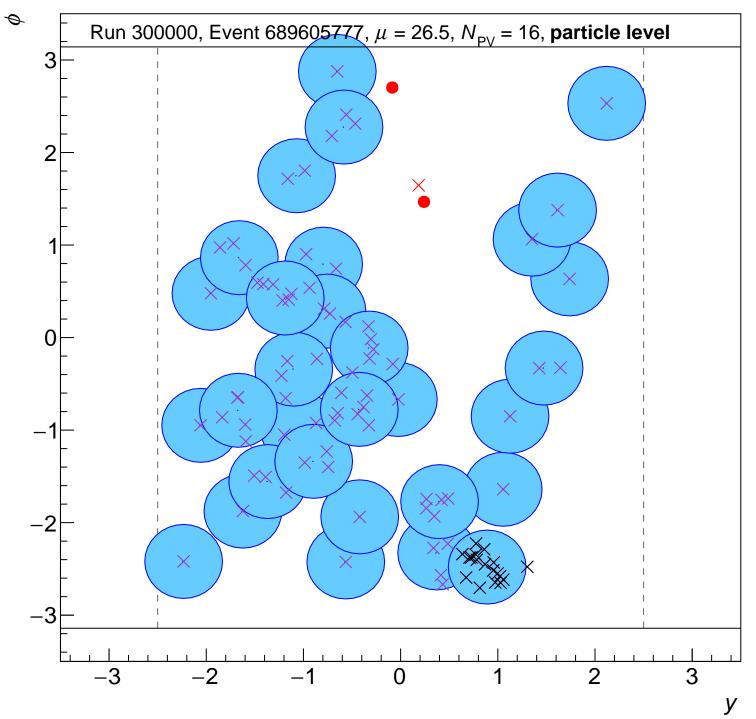


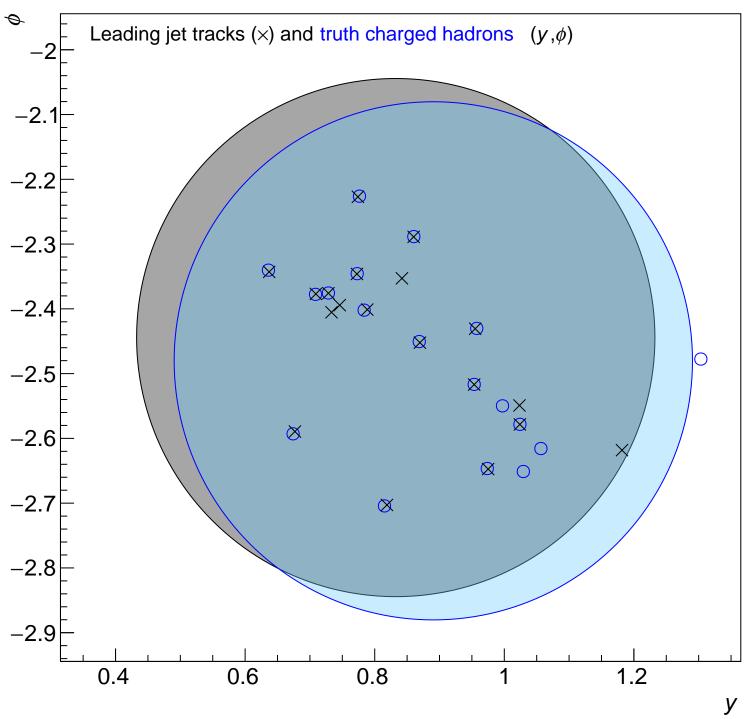


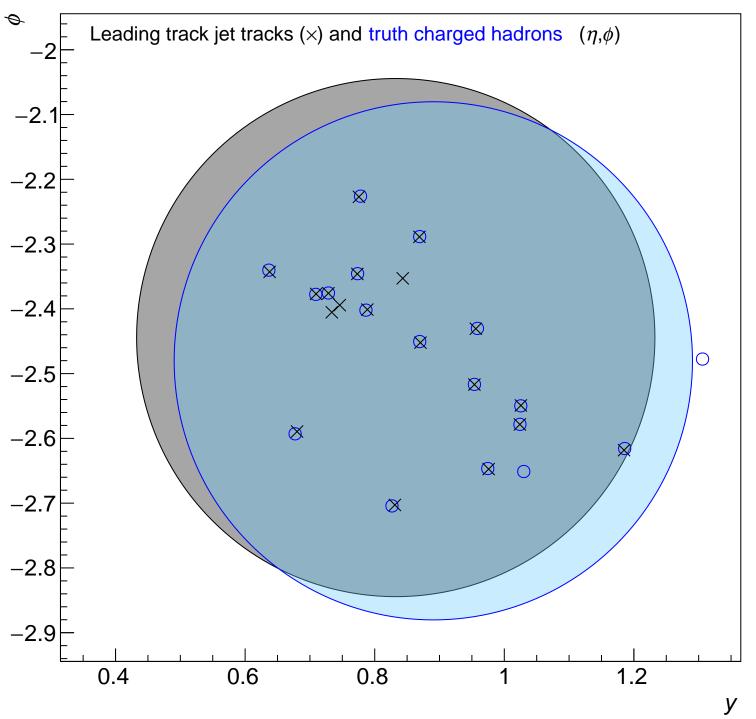


```
Run 300000, Event 689602785, \mu = 40.5, N_{pv} = 21
                                                                             23 tracks, first 4
Truth (m_{\parallel}, p_{\parallel}, y_{\parallel}) = (89.1, 180.5, 0.41)
                                                                               (23.4, 1.01, -2.63), matched to \pi^-
Reco (m_{\parallel}, p_{\parallel}, y_{\parallel}) = (85.8, 174.4, 0.41)
                                                                              (23.0, 1.05, -2.65), matched to K
\Delta \phi(\text{II,j1}) = 3.01, \ \Delta R_{\text{i1}}^{\text{tru-rec}} = 0.00
                                                                              (18.1, 1.09, -2.62), matched to \pi^-
2 truth muons, (p_{\perp}/\text{GeV}, y, \phi)
                                                                              (12.2, 1.08, -2.38), matched to \pi^-
 (161.6, 0.41, 0.25)
                                                                             15 j1 tracks, (p_{\tau}/\text{GeV}, y, \eta, \phi)
 (39.6, 0.41, 1.43)
                                                                              (2.5, 0.80, 0.81, -2.56),
2 reco muons, (p_{\downarrow}/\text{GeV}, y, \phi)
                                                                              (4.6, 1.09, 1.09, -2.44),
 (156.4, 0.41, 0.25)
                                                                              (9.0, 1.10, 1.10, -2.40),
 (38.0, 0.41, 1.43)
                                                                              (12.2, 1.08, 1.08, -2.38),
16 truth jets, (p_{\perp}/\text{GeV}, y, \phi)
                                                                              (7.0, 1.08, 1.08, -2.39),
 (126.8, 1.06, -2.56)
                                                                              (1.1, 1.18, 1.19, -2.77),
 (16.5, 4.88, 1.84)
                                                                              (0.8, 1.22, 1.23, -2.58),
 (2.5, -0.80, 2.23)
                                                                              (5.1, 1.13, 1.13, -2.49),
 (1.8, 4.43, 1.78)
                                                                              (4.0, 1.05, 1.05, -2.50),
 (0.9, 1.90, 1.17)
                                                                              (3.6, 1.12, 1.12, -2.53),
 (0.8, 7.88, -2.67)
                                                                              (18.1, 1.09, 1.09, -2.62),
 (0.8, -8.39, -0.81)
                                                                              (9.3, 1.09, 1.09, -2.63),
                                                                              (23.4, 1.01, 1.01, -2.63),
 (0.6, 1.93, -1.60)
 (0.6, -7.16, -2.00)
                                                                              (23.0, 1.05, 1.05, -2.65),
                                                                              (4.3, 1.08, 1.08, -2.66),
 (0.6, 1.81, -2.90)
                                                                             15 j1 charged hadrons, (\rho_{\perp}/\text{GeV}, y, \eta, \phi)
 (0.6, -2.85, 0.54)
 (0.6, 5.34, -2.20)
                                                                              (2.6, 0.80, 0.81, -2.56), \pi^{-}
 (0.6, -2.08, 2.22)
                                                                              (4.5, 1.09, 1.09, -2.44), \pi^+
                                                                              (8.9, 1.10, 1.10, -2.40), \pi^{-}
 (0.5, 3.67, 1.62)
 (0.5, 6.12, 2.07)
                                                                              (12.2, 1.08, 1.08, -2.38), \pi^{-}
 (0.5, 3.21, -2.95)
                                                                              (7.3, 1.08, 1.08, -2.39), \pi^+
7 reco jets, (p_{\downarrow}/\text{GeV}, y, \phi)
                                                                              (1.1, 1.18, 1.19, -2.77), \pi^+
 (127.4, 1.06, -2.56)
                                                                              (0.9, 1.22, 1.23, -2.57), \pi^+
 (2.5, -0.80, 2.23)
                                                                              (5.0, 1.13, 1.13, -2.49), \pi^+
                                                                              (4.0, 1.05, 1.05, -2.50), \pi^+
 (2.1, 1.86, -1.89)
 (1.4, 2.29, 1.02)
                                                                              (3.7, 1.12, 1.12, -2.53), \pi^{-}
 (1.0, 1.90, 1.17)
                                                                              (24.1, 1.01, 1.01, -2.63), \pi^{-}
                                                                              (22.2, 1.05, 1.05, -2.65), K<sup>+</sup>
 (1.0, 2.15, -1.36)
 (0.6, 1.81, -2.90)
                                                                              (4.2, 1.08, 1.08, -2.66), \pi^+
21 charged truth hadrons, p_{\pm}>0.5, |y|<2.5
                                                                              (17.6, 1.09, 1.09, -2.62), \pi^{-}
 (24.1, 1.01, -2.63)
                                                                              (9.2, 1.09, 1.09, -2.63), \pi^{-}
 (22.2, 1.05, -2.65)
```

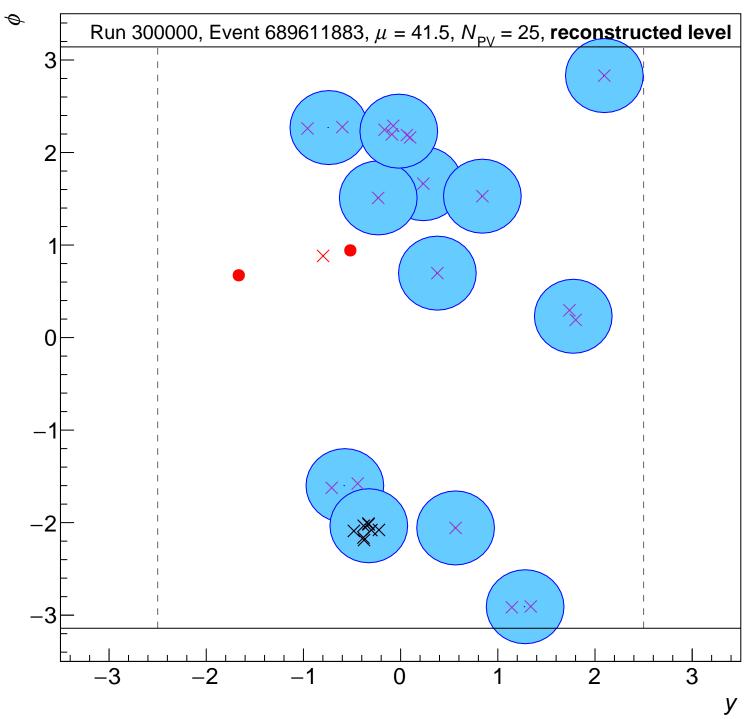


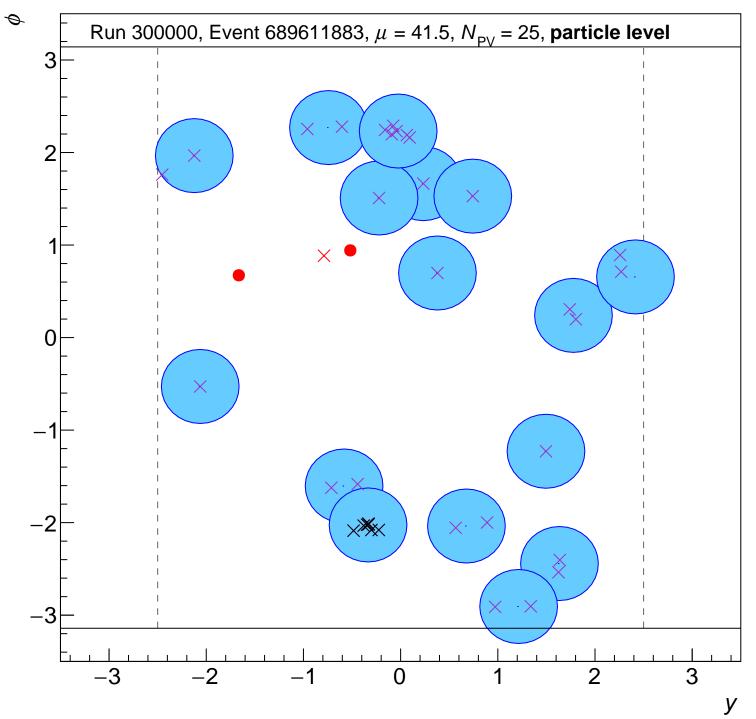


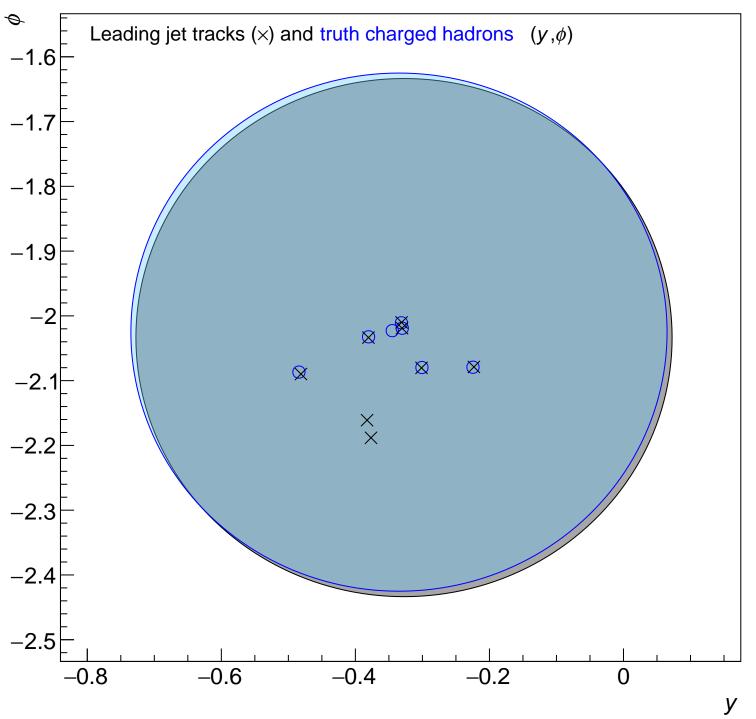


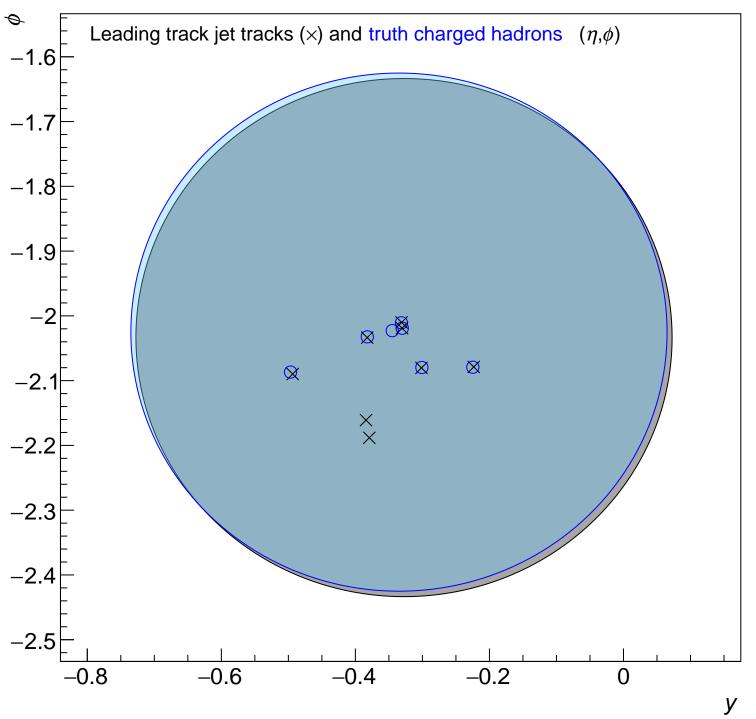


```
Run 300000, Event 689605777, \mu = 26.5, N_{pv} = 16
                                                                             (0.9, 4.42, 0.60)
Truth (m_{\parallel}, p_{\parallel}, y_{\parallel}) = (101.1, 202.0, 0.18)
                                                                             (0.9, -0.56, -2.42)
Reco (m_{\parallel}, p_{\parallel}, y_{\parallel}, y_{\parallel}) = (100.7, 199.8, 0.18)
                                                                             (0.9, 2.92, -1.59)
\Delta \phi(II,j1) = -2.19, \ \Delta R_{ij}^{\text{tru-rec}} = 0.07
                                                                             (0.8, 1.62, 1.38)
2 truth muons, (p_{\downarrow}/\text{GeV}, y, \phi)
                                                                             (0.7, 2.83, 3.13)
 (186.3, 0.24, 1.47)
                                                                             (0.7, -6.28, 1.87)
 (37.9, -0.09, 2.70)
                                                                             (0.7, -4.42, -0.60)
2 reco muons, (\rho_{\downarrow}/\text{GeV}, y, \phi)
                                                                             (0.7, 1.35, 1.06)
 (184.0, 0.24, 1.47)
                                                                             (0.7, -6.55, -0.55)
 (38.1, -0.09, 2.70)
                                                                             (0.7, -0.65, 2.88)
51 truth jets, (p_{\perp}/\text{GeV}, y, \phi)
                                                                             (0.7, -2.23, -2.42)
 (86.1, 0.89, -2.48)
                                                                             (0.7, 3.72, -3.12)
 (48.7, -1.19, 0.43)
                                                                             (0.7, inf, -1.31)
 (30.0, -0.43, -0.78)
                                                                             (0.6, -3.62, -2.79)
                                                                             (0.6, -1.95, 0.48)
 (19.7, 0.40, -1.77)
 (15.2, 0.37, -2.33)
                                                                             (0.6, -7.66, -0.62)
 (11.7, -0.32, -0.11)
                                                                             (0.6, -2.92, 1.81)
 (8.2, -0.89, -1.34)
                                                                             (0.6, 2.12, 2.53)
 (6.9, -1.67, -0.79)
                                                                             (0.6, 4.02, 2.14)
 (6.0, -5.47, -2.99)
                                                                             (0.6, -4.33, 1.35)
 (5.4, -1.66, 0.86)
                                                                             (0.5, 1.74, 0.63)
 (3.4, -0.58, 2.27)
                                                                             (0.5, -5.23, -0.50)
 (3.2, -1.10, -0.34)
                                                                             (0.5, -3.54, -1.46)
 (2.9, -1.37, -1.56)
                                                                             (0.5, 1.06, -1.64)
 (2.6, -1.04, -0.99)
                                                                           27 reco jets, (\rho_{-}/\text{GeV}, y, \phi)
 (2.6, -0.76, 0.29)
                                                                             (125.3, 0.83, -2.44)
 (2.5, -0.79, 0.79)
                                                                             (50.2, -1.19, 0.43)
 (2.4, 1.48, -0.33)
                                                                             (30.9, -0.42, -0.77)
 (1.6, -1.07, 1.75)
                                                                             (14.5, 0.35, -2.33)
 (1.5, -0.42, -1.94)
                                                                             (11.8, -0.32, -0.11)
 (1.4, -0.02, -0.67)
                                                                             (6.9, 0.34, -1.80)
 (1.3, 3.91, -0.85)
                                                                             (6.9, -0.93, -1.36)
 (1.2, 4.08, -0.01)
                                                                             (3.5, -1.83, -0.79)
 (1.2, 3.73, 1.69)
                                                                             (2.6, -0.76, 0.29)
 (1.1, -2.06, -0.95)
                                                                             (2.5, -1.05, -0.99)
 (1.1, -7.53, -0.16)
                                                                             (2.3, -1.54, -1.34)
 (1.0, 1.13, -0.85)
                                                                             (2.0, -0.66, 2.25)
 (1.0, -1.62, -1.88)
                                                                             (2.0, -1.77, 1.00)
                                                                             (1.8, 1.30, -2.48)
                                                                             (4.7 \ 0.66 \ 0.75)
```

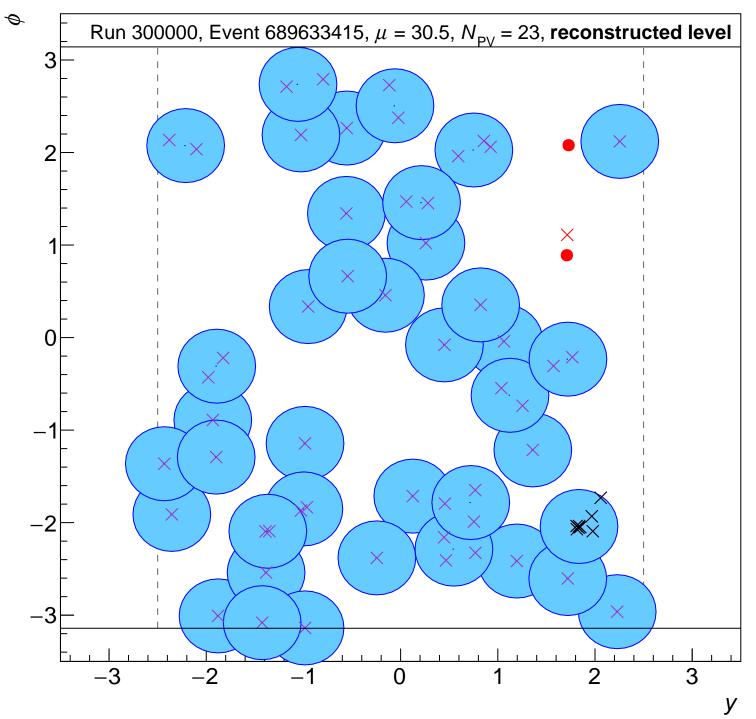


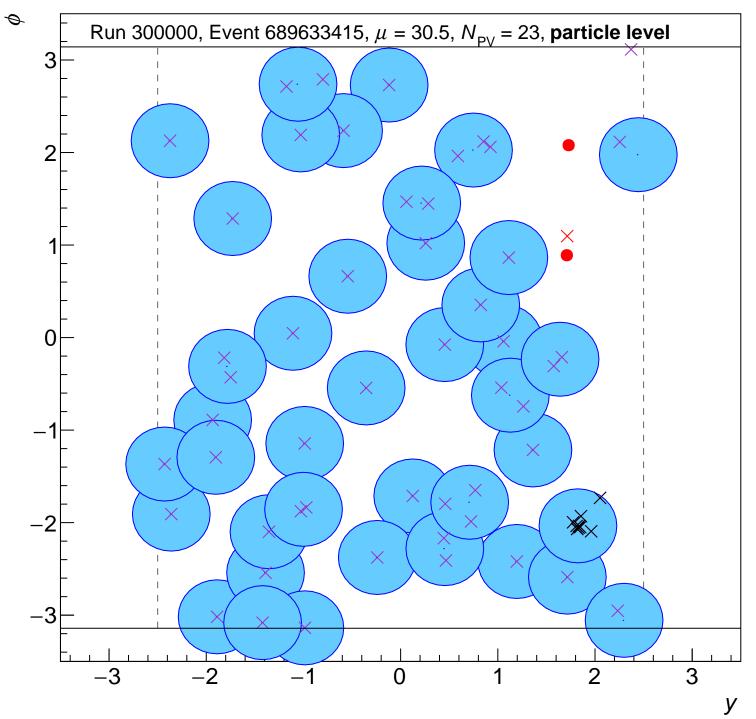


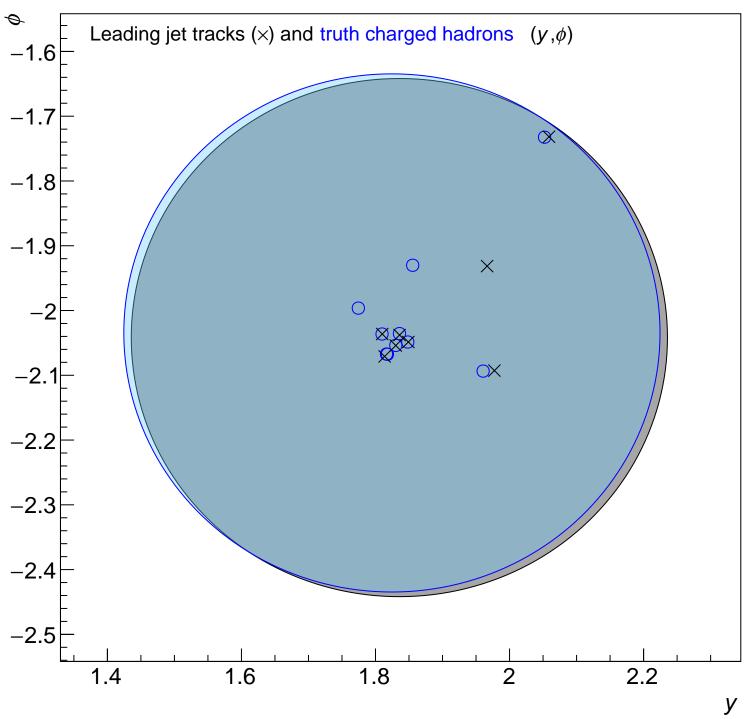


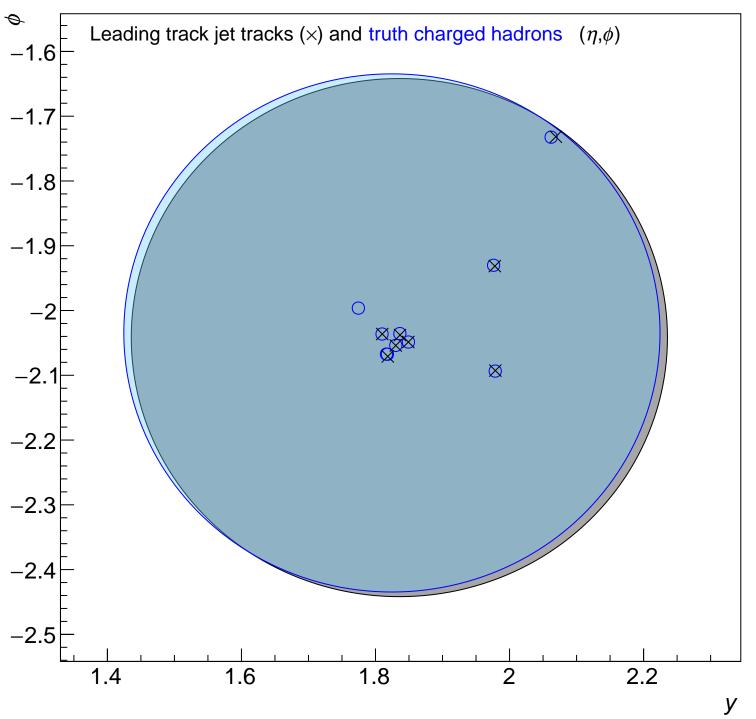


```
Run 300000, Event 689611883, \mu = 41.5, N_{pv} = 25
                                                                            (0.7, -5.96, -0.24)
Truth (m_{\parallel}, p_{\parallel}, y_{\parallel}) = (91.8, 178.6, -0.79)
                                                                            (0.7, 0.38, 0.70)
Reco (m_{\parallel}, p_{\parallel}^{n,n}, y_{\parallel}^{n}) = (93.0, 178.4, -0.80)
                                                                            (0.7, 3.67, -3.04)
\Delta \phi(\text{II,j1}) = 2.92, \ \Delta R_{\text{i1}}^{\text{tru-rec}} = 0.01
                                                                            (0.6, -4.47, -1.34)
2 truth muons, (p_{\perp}/\text{GeV}, y, \phi)
                                                                            (0.6, -3.44, 0.71)
                                                                            (0.6, 6.63, -1.72)
 (140.8, -0.52, 0.94)
 (38.9, -1.66, 0.67)
                                                                            (0.6, -4.18, 2.08)
2 reco muons, (p_{\downarrow}/\text{GeV}, y, \phi)
                                                                            (0.6, -2.95, 2.76)
 (139.2, -0.52, 0.94)
                                                                            (0.5, -2.06, -0.53)
 (40.3, -1.67, 0.67)
                                                                            (0.5, 4.17, -1.30)
37 truth jets, (p_{\tau}/\text{GeV}, y, \phi)
                                                                           12 reco jets, (p_{\tau}/\text{GeV}, y, \phi)
 (125.9, -0.33, -2.03)
                                                                             (63.9, -0.33, -2.03)
 (36.2, -0.03, 2.23)
                                                                            (29.6, -0.02, 2.23)
 (9.4, 2.42, 0.66)
                                                                            (2.2, 1.28, -2.91)
 (2.8, 3.50, -2.55)
                                                                            (1.9, -0.23, 1.51)
 (2.7, -5.02, 2.71)
                                                                            (1.8, -0.57, -1.60)
 (2.5, 3.49, -0.11)
                                                                            (1.6, 0.84, 1.53)
 (2.5, 3.81, 0.86)
                                                                            (1.4, 1.78, 0.23)
                                                                            (1.4, -0.74, 2.27)
 (2.2, 1.21, -2.91)
 (2.1, 1.63, -2.44)
                                                                            (1.4, 0.23, 1.66)
 (1.9, -0.22, 1.51)
                                                                            (1.2, 0.57, -2.06)
 (1.8, 0.68, -2.04)
                                                                            (0.7, 0.38, 0.70)
 (1.7, -0.58, -1.60)
                                                                            (0.6, 2.10, 2.83)
 (1.6, 2.56, -1.95)
                                                                           35 charged truth hadrons, p_{\tau}>0.5, |y|<2.5
 (1.6, 0.74, 1.53)
                                                                             (63.0, -0.35, -2.02)
 (1.5, -5.32, 0.84)
                                                                            (42.4, -0.33, -2.02)
 (1.4, 1.78, 0.24)
                                                                           27 tracks, first 4
 (1.4, -2.54, 1.76)
                                                                             (41.2, -0.33, -2.02), matched to \pi^+
 (1.4, 0.23, 1.66)
                                                                            (11.9, -0.08, 2.29), matched to K
 (1.4, -5.07, 0.40)
                                                                            (10.8, 0.06, 2.19), matched to \pi^-
 (1.4, -0.74, 2.27)
                                                                            (9.3, -0.33, -2.01), matched to \pi^+
                                                                           8 j1 tracks, (p_{\tau}/\text{GeV}, y, \eta, \phi)
 (1.3, 4.04, -0.57)
                                                                            (0.6, -0.48, -0.49, -2.09),
 (1.3, -2.12, 1.97)
 (1.1, 6.04, -0.80)
                                                                            (1.2, -0.38, -0.38, -2.19),
 (1.1, -4.33, -0.28)
                                                                            (1.5, -0.38, -0.38, -2.16),
 (1.0, -3.07, -3.10)
                                                                            (2.9, -0.22, -0.22, -2.08),
                                                                            (5.9, -0.30, -0.30, -2.08),
 (0.8, 5.88, -3.01)
 (0.7, 1.50, -1.23)
                                                                            (1.4, -0.38, -0.38, -2.03),
                                                                            (41.2, -0.33, -0.33, -2.02),
                                                                            (0.2 \ 0.22 \ 0.22 \ 0.04)
```

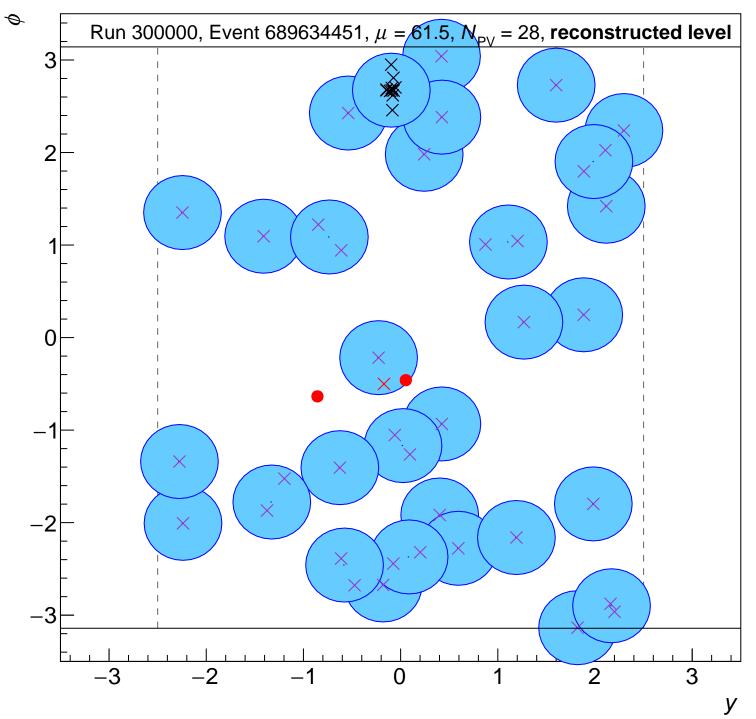


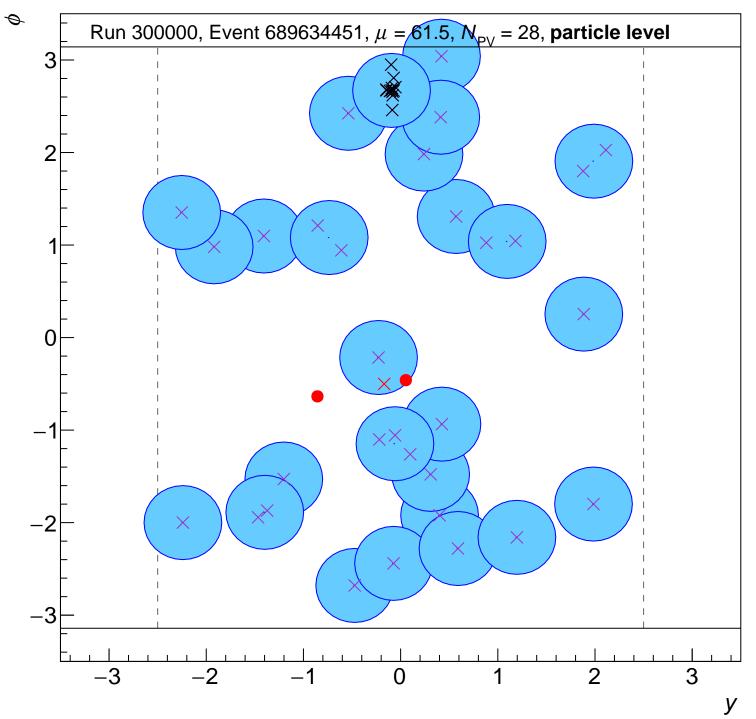


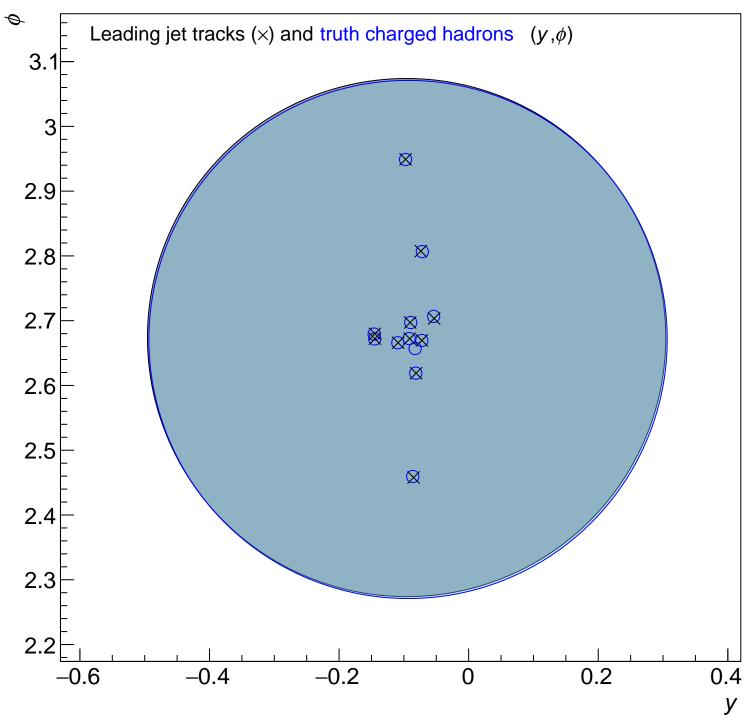


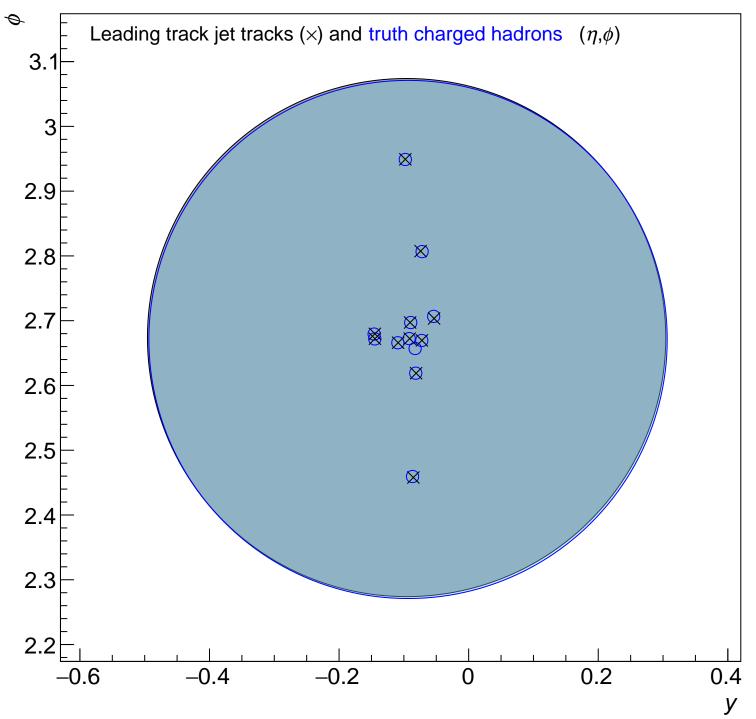


```
Run 300000, Event 689633415, \mu = 30.5, N_{pv} = 23
                                                                             (0.9, -0.24, -2.38)
Truth (m_{\parallel}, p_{\parallel}, y_{\parallel}) = (90.6, 181.8, 1.71)
                                                                             (0.9, -1.39, -2.54)
Reco (m_{\parallel}, p_{\parallel}^{+,-}, y_{\parallel}^{-}) = (96.0, 187.3, 1.71)
                                                                             (0.9, 0.26, 1.02)
\Delta \phi(\text{II},\text{j1}) = -3.13, \ \Delta R_{\text{i4}}^{\text{tru-rec}} = 0.01
                                                                             (0.9, -3.90, -0.88)
2 truth muons, (p_{\downarrow}/\text{GeV}, y, \phi)
                                                                             (0.9, 3.03, 2.84)
 (163.0, 1.71, 0.89)
                                                                             (0.8, 5.57, 0.56)
 (40.1, 1.73, 2.08)
                                                                             (0.8, 4.07, 1.24)
2 reco muons, (p_{\downarrow}/\text{GeV}, y, \phi)
                                                                             (0.8, -4.78, 2.18)
 (166.3, 1.71, 0.89)
                                                                             (0.8, -8.52, -1.86)
 (44.1, 1.73, 2.08)
                                                                             (0.8, -0.99, -1.14)
59 truth jets, (p_{\tau}/\text{GeV}, y, \phi)
                                                                             (0.8, -1.93, -0.89)
 (100.7, 1.82, -2.03)
                                                                             (0.7, -1.73, 1.29)
 (13.1, -0.54, 0.66)
                                                                             (0.7, 4.06, 1.80)
 (4.4, 0.71, -1.78)
                                                                             (0.7, 0.45, -0.08)
 (2.6, -1.06, 2.74)
                                                                             (0.7, 3.15, -2.06)
 (2.5, 0.22, 1.45)
                                                                             (0.6, -0.12, 2.73)
 (2.4, 0.75, 2.03)
                                                                             (0.6, -3.73, -3.08)
 (2.4, 1.64, -0.23)
                                                                             (0.6, 1.36, -1.21)
 (2.0, 0.45, -2.28)
                                                                             (0.6, -1.11, 0.05)
                                                                             (0.6, 1.20, -2.42)
 (1.8, 2.45, 1.98)
 (1.8, 1.11, 0.86)
                                                                             (0.6, 1.06, -0.04)
 (1.5, -5.49, 0.04)
                                                                             (0.6, -3.43, 0.69)
 (1.5, -1.00, -1.86)
                                                                             (0.6, 3.06, 2.35)
 (1.4, -4.12, 2.15)
                                                                             (0.6, -1.89, -3.02)
 (1.4, 0.82, 0.35)
                                                                             (0.6, -4.66, 2.81)
 (1.3, 1.13, -0.62)
                                                                             (0.6, -2.36, -1.91)
 (1.3, -1.78, -0.31)
                                                                             (0.6, 3.02, -1.56)
 (1.2, -1.90, -1.29)
                                                                             (0.5, -2.37, 2.13)
 (1.2, -1.42, -3.08)
                                                                             (0.5, 0.12, -1.71)
 (1.1, -1.35, -2.10)
                                                                             (0.5, -4.67, -1.65)
 (1.1, -5.71, -0.55)
                                                                             (0.5, -7.07, -0.61)
 (1.1, -1.03, 2.19)
                                                                             (0.5, -0.35, -0.54)
                                                                            39 reco jets, (p_{\tau}/\text{GeV}, y, \phi)
 (1.1, 2.30, -3.06)
 (1.1, -0.59, 2.24)
                                                                             (85.7, 1.84, -2.04)
 (1.0, -2.43, -1.37)
                                                                             (13.1, -0.54, 0.66)
 (1.0, 7.52, 1.68)
                                                                             (4.6, 0.72, -1.78)
 (1.0, -0.99, -3.14)
                                                                             (2.8, 0.55, -2.29)
 (1.0, 1.72, -2.59)
                                                                             (2.7, -1.06, 2.74)
                                                                             (2.5, 0.22, 1.46)
                                                                             (2.4 \ 0.75 \ 2.02)
```

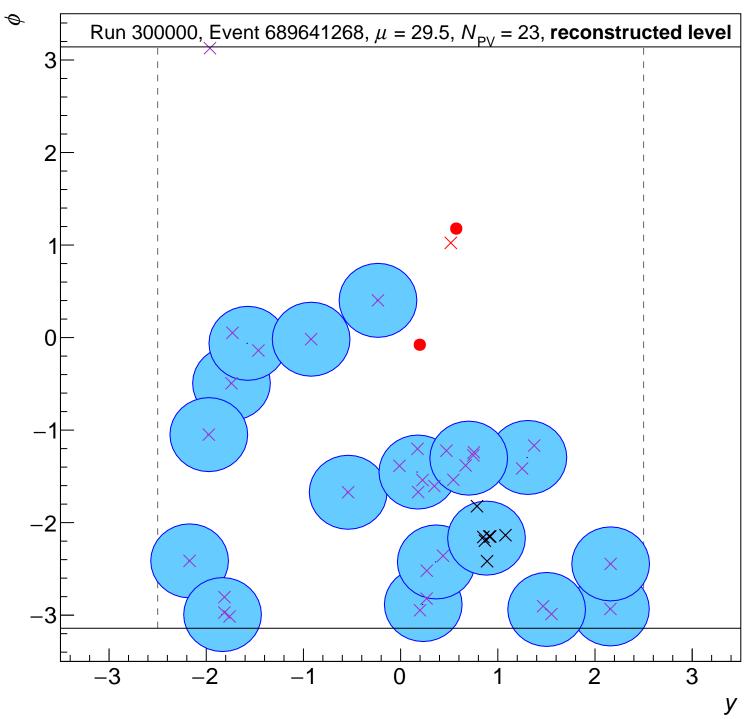


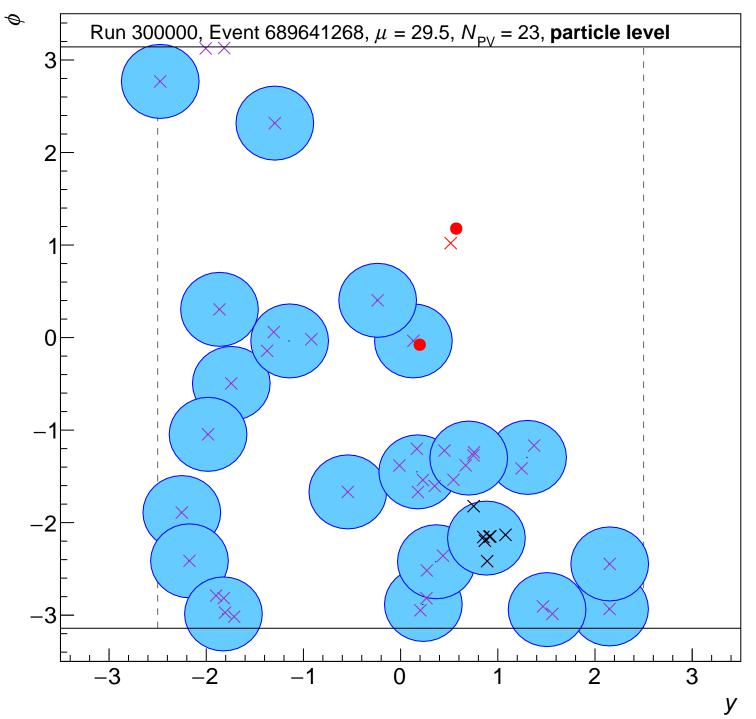


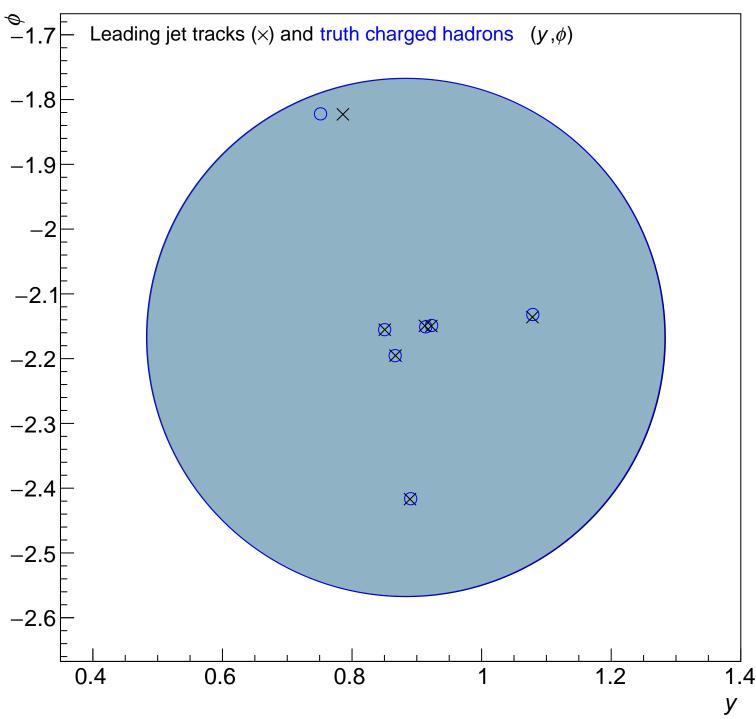


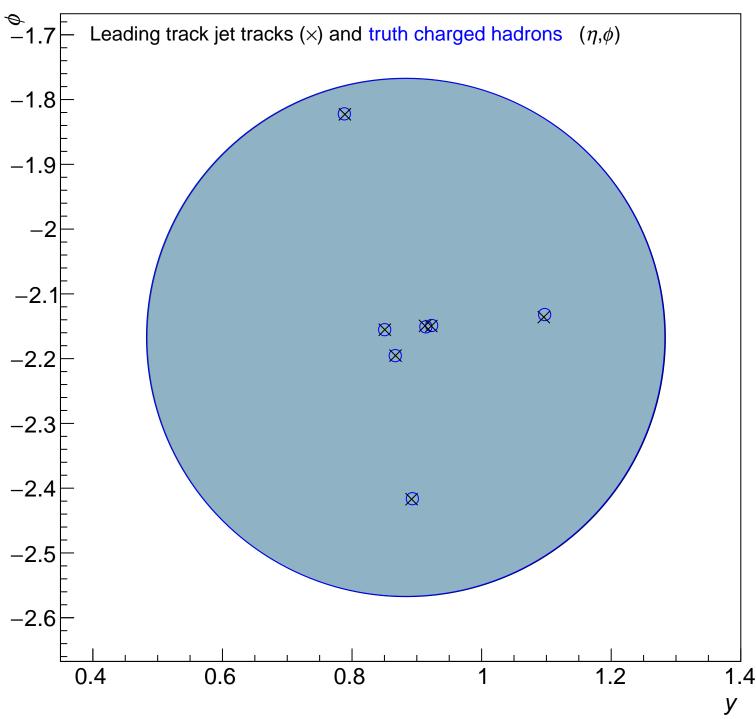


Run 300000, Event 689634451, μ = 61.5, N_{PV} = 28	(0.9, -5.03, 1.42)
Truth $(m_{\parallel}, p_{_{T,\parallel}}, y_{_{\parallel}}) = (90.6, 223.4, -0.17)$	(0.9, -5.46, -2.89)
Reco $(m_{\parallel}, p_{\parallel}, y_{\parallel}) = (90.4, 222.3, -0.17)$	(0.8, -1.41, 1.10)
$\Delta \phi(\text{II,j1}) = 3.11, \ \Delta R_{\text{i1}}^{\text{tru-rec}} = 0.00$	(0.8, -3.47, -2.96)
2 truth muons, $(p_{\downarrow}/\text{GeV}, y, \phi)$	(0.7, 1.20, -2.16)
(171.9, 0.05, -0.46)	(0.7, -4.73, 1.93)
(52.1, -0.86, -0.64)	(0.7, 0.59, -2.28)
2 reco muons, $(p_{\perp}/\text{GeV}, y, \phi)$	(0.7, -0.07, -2.44)
(170.6, 0.05, -0.46)	(0.7, 0.40, -1.92)
(52.3, -0.86, -0.64)	(0.6, -4.37, 0.90)
50 truth jets, $(p_{\tau}/\text{GeV}, y, \phi)$	(0.6, -4.93, -2.45)
(159.0, -0.09, 2.67)	(0.6, 1.88, 0.25)
(6.4, -4.31, 1.33)	(0.6, -3.16, 1.79)
(3.5, 0.41, 2.38)	(0.6, -3.71, -2.39)
(2.8, 1.10, 1.04)	(0.6, -5.12, 0.57)
(2.7, -4.08, 1.67)	(0.5, -0.47, -2.68)
(2.6, -0.54, 2.42)	(0.5, -2.24, -2.00)
(2.0, -0.06, -1.15)	(0.5, -4.25, -0.03)
(2.0, -1.40, -1.89)	(0.5, 0.24, 1.98)
(1.9, -3.21, -2.15)	(0.5, -6.55, 1.91)
(1.9, -3.03, -1.33)	(0.5, -1.20, -1.53)
(1.8, 1.99, 1.91)	(0.5, 0.57, 1.31)
(1.6, 4.60, -2.65)	(0.5, 3.92, 0.20)
(1.4, -4.21, -2.34)	31 reco jets, $(\rho_{\tau}/\text{GeV}, y, \phi)$
(1.3, -2.25, 1.35)	(132.9, -0.10, 2.67)
(1.2, 0.43, -0.94)	(3.5, 0.42, 2.38)
(1.2, -0.73, 1.08)	(3.5, 2.17, -2.90)
(1.1, 1.98, -1.80)	(3.0, 1.82, -3.14)
(1.1, -0.23, -0.22)	(2.9, 1.11, 1.03)
(1.1, 8.39, 0.10)	(2.6, -0.54, 2.43)
(1.0, -5.65, 0.91)	(2.1, -0.58, -2.46)
(1.0, -1.92, 0.98)	(2.0, -1.33, -1.78)
(1.0, 3.78, -2.15)	(1.8, 1.99, 1.90)
(0.9, 0.42, 3.04)	(1.7, 0.09, -2.37)
(0.9, 5.40, -1.45)	(1.3, -0.63, -1.41)
(0.9, 0.31, -1.48)	(1.3, -2.24, 1.35)
(0.9, -3.09, -2.84)	(1.3, 0.02, -1.17)
(0.9, -3.65, 0.90)	(1.2, 0.42, -0.93)
	(1.2, -0.73, 1.09)
	(1 1 1 00 1 00)

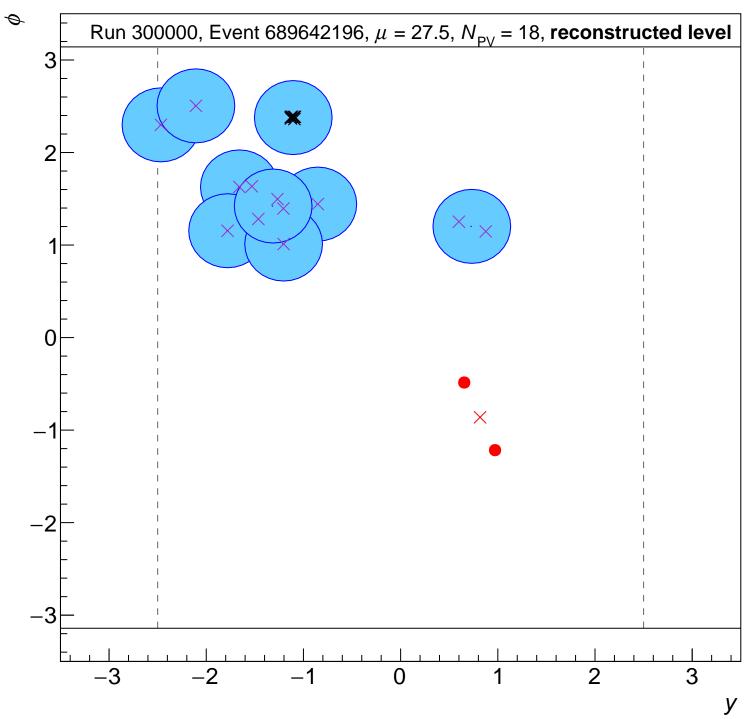


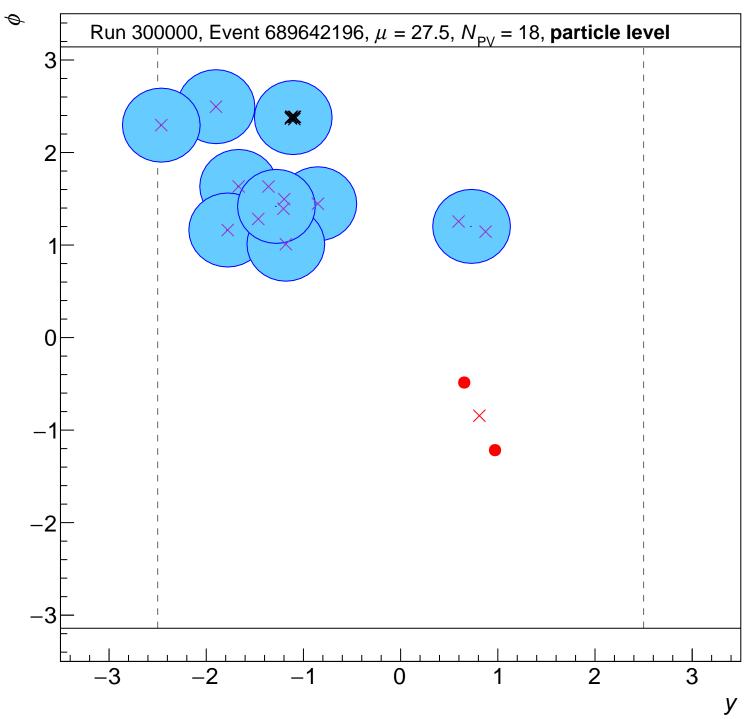


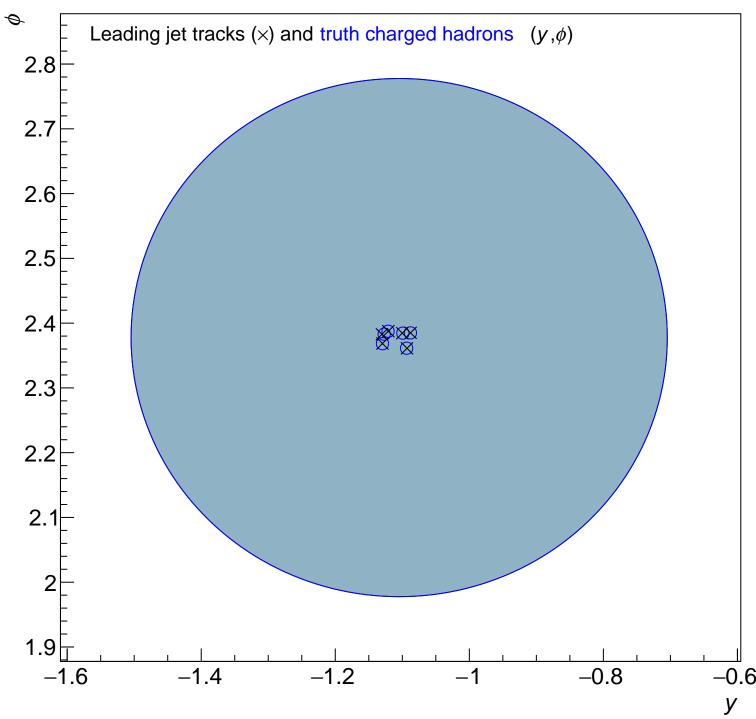


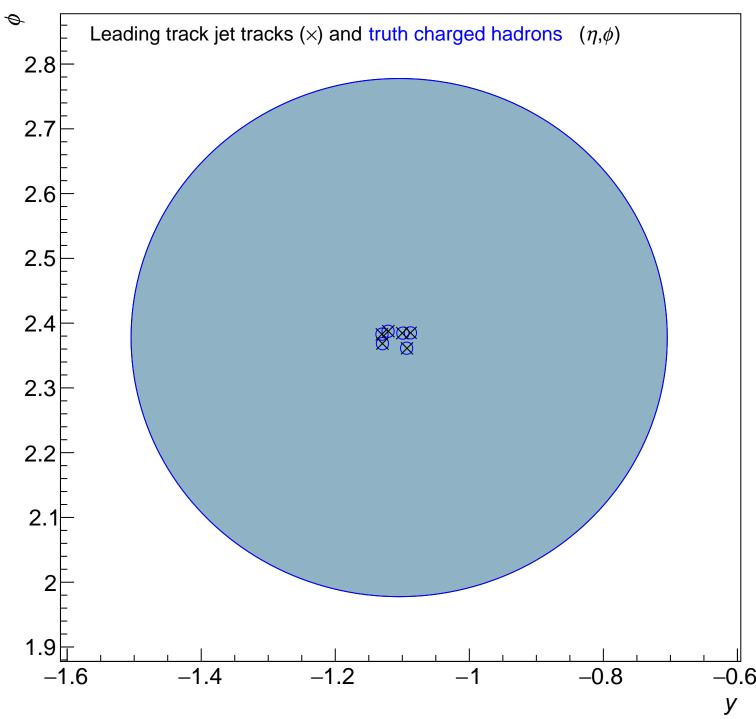


```
Run 300000, Event 689641268, \mu = 29.5, N_{pv} = 23
                                                                            (1.0, -3.98, 0.13)
Truth (m_{\parallel}, p_{\parallel}, y_{\parallel}) = (91.9, 189.5, 0.52)
                                                                            (1.0, -1.86, 0.30)
Reco (m_{\parallel}, p_{\parallel}, y_{\parallel}) = (94.0, 195.6, 0.52)
                                                                            (0.9, -1.98, -1.05)
\Delta \phi(\text{II,j1}) = -3.09, \ \Delta R_{\text{i1}}^{\text{tru-rec}} = 0.00
                                                                            (0.9, -2.89, 0.14)
2 truth muons, (p_{\downarrow}/\text{GeV}, y, \phi)
                                                                            (0.9, -1.29, 2.32)
 (177.4, 0.57, 1.18)
                                                                            (0.8, 4.01, 2.00)
 (31.3, 0.20, -0.08)
                                                                            (0.8, -2.25, -1.89)
2 reco muons, (\rho_{\downarrow}/\text{GeV}, y, \phi)
                                                                            (0.7, -4.65, 2.63)
 (183.4, 0.57, 1.18)
                                                                            (0.7, -1.74, -0.50)
 (31.6, 0.20, -0.08)
                                                                            (0.7, 6.50, -2.51)
46 truth jets, (p_{\perp}/\text{GeV}, y, \phi)
                                                                            (0.7, 2.15, -2.93)
 (61.6, 0.88, -2.17)
                                                                            (0.7, -4.27, -2.04)
 (32.5, 0.70, -1.30)
                                                                            (0.6, -3.39, -0.59)
 (9.7, -1.82, -2.99)
                                                                            (0.6, -4.99, 0.04)
 (6.7, 0.18, -1.45)
                                                                            (0.6, 2.77, 1.15)
 (5.7, 3.98, -2.15)
                                                                            (0.5, -2.47, 2.77)
 (4.6, -4.30, 0.50)
                                                                            (0.5, -3.06, -1.66)
 (4.3, 4.24, 2.48)
                                                                            (0.5, -3.88, -0.95)
 (3.8, 2.85, 2.95)
                                                                            (0.5, 7.31, 2.29)
                                                                           17 reco jets, (p_{\downarrow}/\text{GeV}, y, \phi)
 (3.7, -1.14, -0.04)
 (3.2, -5.19, 1.97)
                                                                            (62.4, 0.88, -2.17)
 (3.1, 2.15, -2.45)
                                                                            (33.4, 0.70, -1.30)
 (2.4, -0.24, 0.40)
                                                                            (7.0, -1.83, -2.99)
 (2.4, 0.37, -2.42)
                                                                            (6.6, 0.18, -1.45)
 (2.1, 4.44, 2.04)
                                                                            (3.1, 2.16, -2.45)
 (1.9, -2.17, -2.41)
                                                                            (2.5, -0.23, 0.40)
 (1.8, 1.51, -2.94)
                                                                            (2.4, 0.37, -2.42)
 (1.7, -2.62, 2.38)
                                                                            (2.0, -0.92, -0.02)
 (1.7, -5.74, -2.71)
                                                                            (1.8, -2.17, -2.41)
 (1.7, -3.75, 0.79)
                                                                            (1.8, -1.57, -0.06)
 (1.4, 2.72, -1.91)
                                                                            (1.8, 1.50, -2.94)
 (1.4, -0.54, -1.67)
                                                                            (1.4, -0.54, -1.67)
 (1.4, 0.23, -2.88)
                                                                            (1.4, 0.23, -2.89)
                                                                            (1.1, 1.31, -1.30)
 (1.3, -3.54, -1.48)
                                                                            (0.9, -1.97, -1.05)
 (1.1, 1.31, -1.30)
                                                                            (0.7, 2.16, -2.93)
 (1.0, -4.73, -0.78)
                                                                            (0.7, -1.74, -0.49)
 (1.0, 0.13, -0.04)
                                                                           46 charged truth hadrons, p_{\pm}>0.5, |y|<2.5
 (1.0, 3.86, -2.68)
                                                                            (22.9, 0.87, -2.20)
                                                                            (4650000016)
```



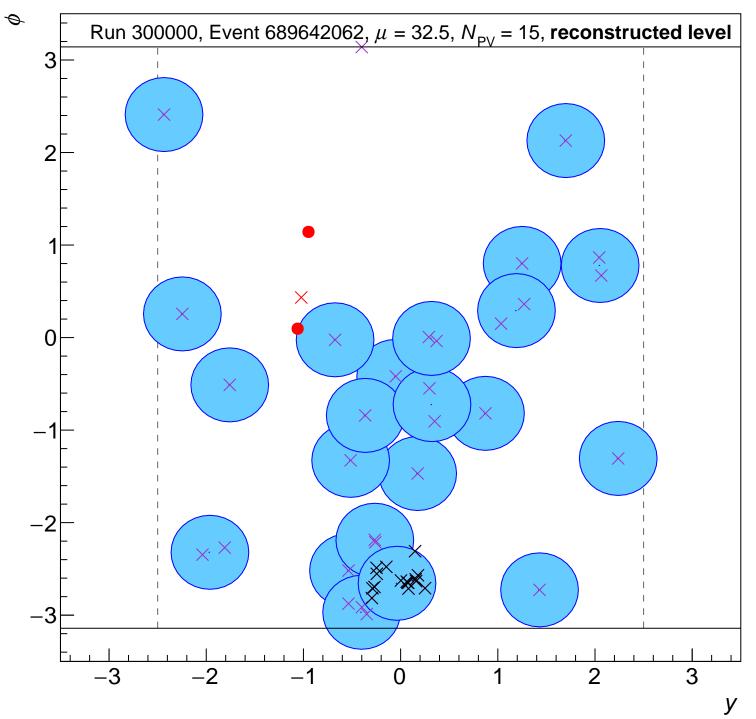


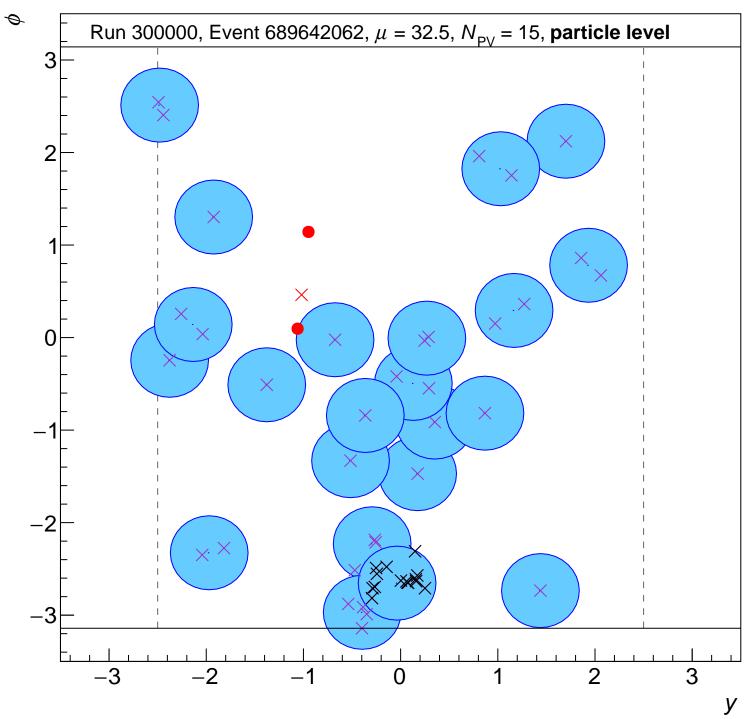


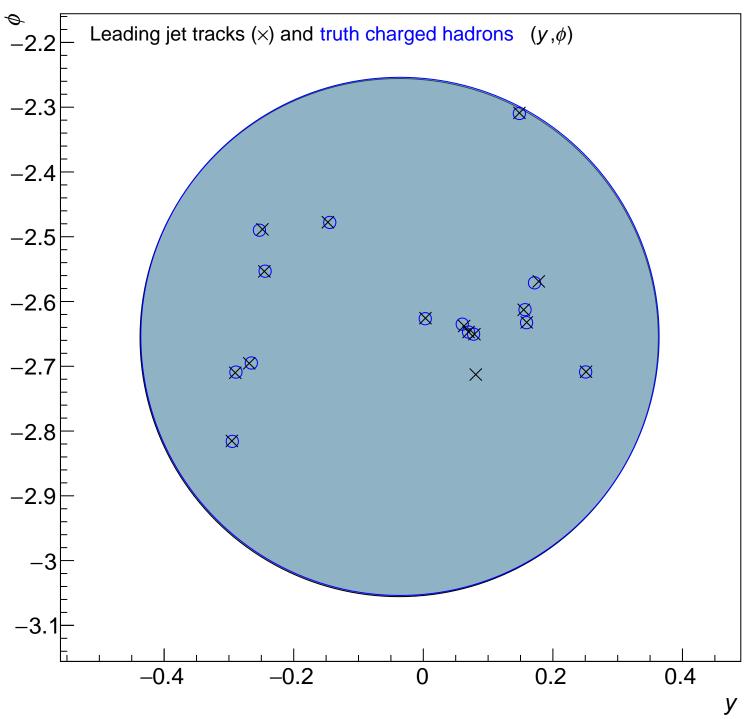


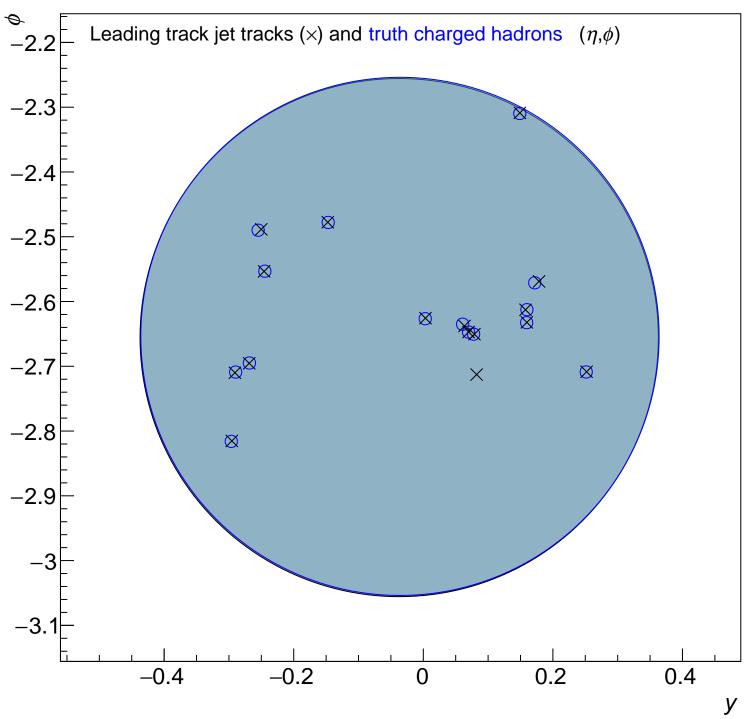
```
Run 300000, Event 689642196, \mu = 27.5, N_{pv} = 18
                                                                                (29.7, -1.10, 2.38), matched to \pi^-
Truth (m_{\parallel}, p_{\parallel}, y_{\parallel}) = (89.9, 214.7, 0.81)
                                                                                (27.5, -1.09, 2.39), matched to \pi^-
Reco (m_{\parallel}, p_{\parallel}, p_{\parallel}, y_{\parallel}) = (91.8, 219.2, 0.82)
                                                                               6 j1 tracks, (\rho_{\downarrow}/\text{GeV}, y, \eta, \phi)
\Delta \phi(\text{II,j1}) = 3.04, \ \Delta R_{\text{i1}}^{\text{tru-rec}} = 0.00
                                                                                (11.3, -1.13, -1.13, 2.37),
2 truth muons, (p_{\downarrow}/\text{GeV}, y, \phi)
                                                                                (33.3, -1.12, -1.12, 2.39),
                                                                                (10.4, -1.13, -1.13, 2.38),
 (116.9, 0.65, -0.49)
 (113.0, 0.97, -1.22)
                                                                                (41.1, -1.09, -1.09, 2.36),
2 reco muons, (\rho_{\downarrow}/\text{GeV}, y, \phi)
                                                                                (29.7, -1.10, -1.10, 2.38),
 (120.6, 0.97, -1.22)
                                                                                (27.5, -1.09, -1.09, 2.39),
 (114.1, 0.65, -0.49)
11 truth jets, (p_{\perp}/\text{GeV}, y, \phi)
                                                                                (11.2, -1.13, -1.13, 2.37), \pi^{-}
 (153.6, -1.10, 2.38)
                                                                                (10.4, -1.13, -1.13, 2.38), p
                                                                                (34.1, -1.12, -1.12, 2.39), \pi^+
 (5.9, -1.28, 1.42)
 (2.0, -1.18, 1.01)
                                                                                (41.5, -1.09, -1.09, 2.36), \pi^+
 (2.0, 0.73, 1.20)
                                                                                (29.2, -1.10, -1.10, 2.38), \pi^{-}
                                                                                (27.2, -1.09, -1.09, 2.38), \pi^{-}
 (0.7, -0.85, 1.45)
 (0.7, -1.78, 1.16)
 (0.6, -2.46, 2.30)
 (0.6, -1.90, 2.50)
 (0.6, -1.67, 1.63)
 (0.6, -6.68, -1.87)
 (0.5, -7.44, -0.72)
9 reco jets, (p_{\tau}/\text{GeV}, y, \phi)
 (153.3, -1.10, 2.38)
 (5.8, -1.31, 1.42)
 (2.0, -1.20, 1.01)
 (2.0, 0.73, 1.20)
 (0.7, -0.85, 1.44)
 (0.7, -1.78, 1.15)
 (0.6, -2.11, 2.50)
 (0.6, -1.66, 1.63)
 (0.6, -2.47, 2.30)
18 charged truth hadrons, \rho_{\pm}>0.5, |y|<2.5
 (41.5, -1.09, 2.36)
 (34.1, -1.12, 2.39)
18 tracks, first 4
 (41.1, -1.09, 2.36), matched to \pi^+
 (33.3, -1.12, 2.39), matched to \pi^+
```

6 j1 charged hadrons, $(p_{\tau}/\text{GeV}, y, \eta, \phi)$

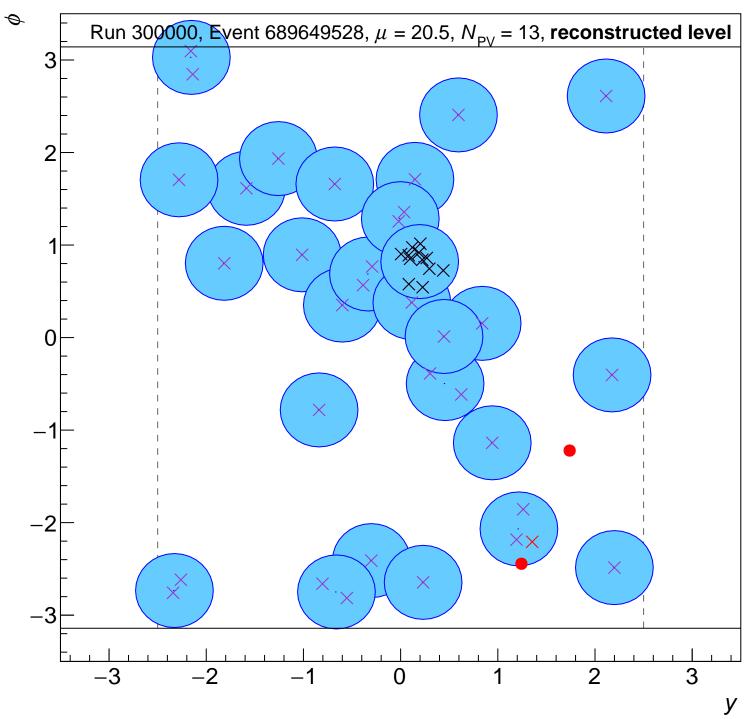


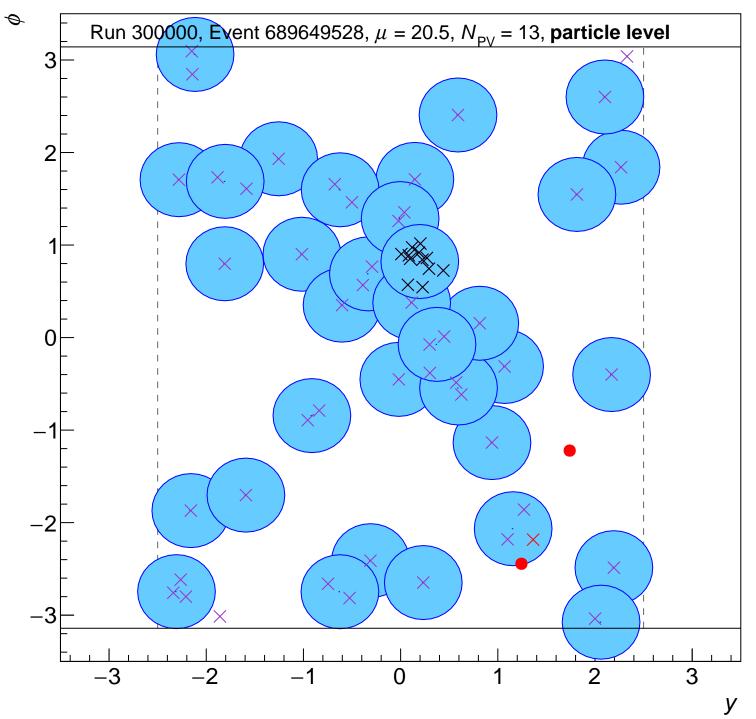


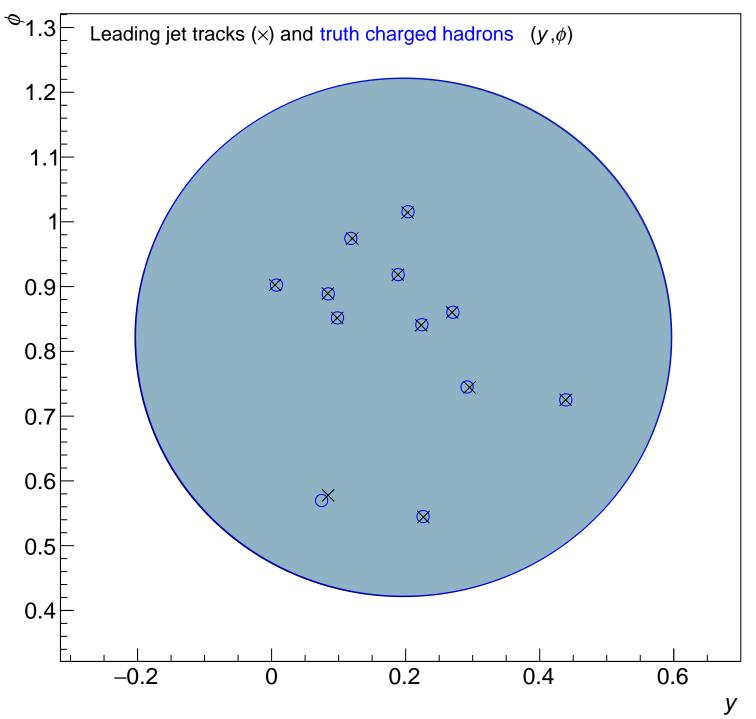


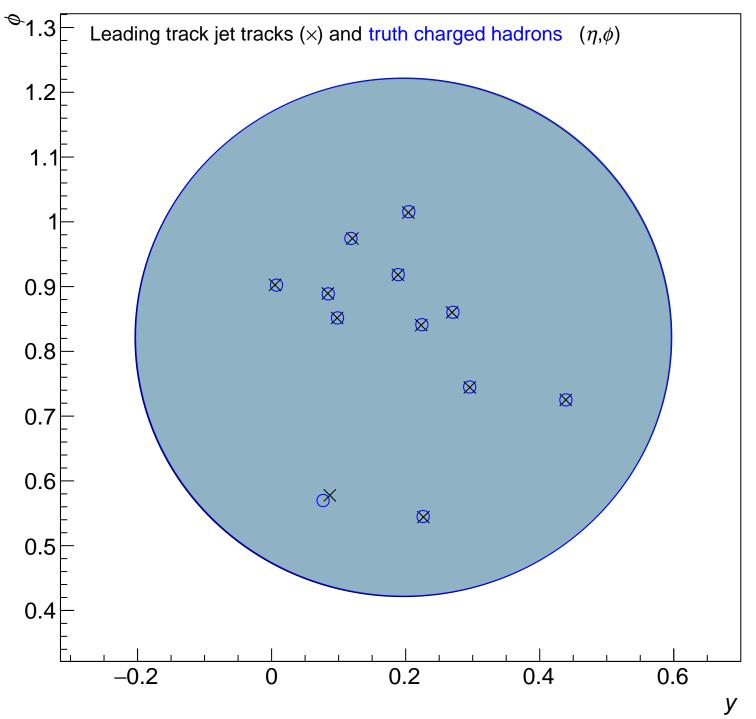


```
Run 300000, Event 689642062, \mu = 32.5, N_{pv} = 15
                                                                             (1.2, 4.80, -1.55)
Truth (m_{\parallel}, p_{\parallel}, y_{\parallel}) = (91.3, 165.7, -1.02)
                                                                             (1.2, -4.36, -2.37)
Reco (m_{\parallel}, p_{\parallel}^{n,n}, y_{\parallel}^{n}) = (91.2, 169.1, -1.02)
                                                                             (1.1, -4.87, -2.24)
\Delta \phi(\text{II,j1}) = 3.09, \ \Delta R_{\text{i1}}^{\text{tru-rec}} = 0.00
                                                                             (1.1, 7.30, -0.62)
2 truth muons, (p_{\perp}/\text{GeV}, y, \phi)
                                                                             (1.0, 6.66, -3.07)
 (120.4, -1.06, 0.10)
                                                                             (0.9, 4.50, 2.99)
 (68.5, -0.95, 1.14)
                                                                             (0.9, 4.45, 0.91)
2 reco muons, (p_{\downarrow}/\text{GeV}, y, \phi)
                                                                             (0.9, -2.98, -0.30)
 (127.2, -1.06, 0.10)
                                                                             (0.8, -3.71, -1.32)
 (64.6, -0.95, 1.14)
                                                                             (0.8, -1.38, -0.51)
56 truth jets, (p_{\perp}/\text{GeV}, y, \phi)
                                                                             (0.8, -0.67, -0.02)
 (67.1, -0.04, -2.65)
                                                                             (0.8, 0.87, -0.82)
 (9.4, -4.39, 1.04)
                                                                             (0.7, -2.38, -0.25)
 (7.5, -0.40, -2.97)
                                                                             (0.7, -5.08, -0.20)
 (7.0, -0.29, -2.23)
                                                                             (0.7, 3.60, -2.87)
 (6.7, 1.17, 0.29)
                                                                             (0.7, 0.35, -0.91)
 (3.8, -2.80, 0.82)
                                                                             (0.7, 5.81, 1.88)
 (3.0, -6.32, 2.64)
                                                                             (0.7, 1.70, 2.12)
                                                                             (0.7, 2.88, -0.79)
 (2.5, -2.48, 2.51)
                                                                             (0.6, 2.97, -0.12)
 (2.4, 5.23, 1.03)
 (2.4, -1.92, 1.30)
                                                                             (0.6, -0.52, -1.33)
 (2.4, 0.27, -0.01)
                                                                             (0.6, 1.44, -2.73)
 (2.4, -2.91, -2.58)
                                                                             (0.6, 3.45, 2.01)
 (2.3, 1.93, 0.78)
                                                                             (0.5, 2.66, -2.12)
 (2.3, -3.70, -2.81)
                                                                             (0.5, 4.24, -1.91)
 (2.0, -1.97, -2.33)
                                                                             (0.5, -4.01, -0.89)
 (2.0, 3.08, 2.93)
                                                                             (0.5, 0.18, -1.47)
 (1.9, -4.97, 1.09)
                                                                             (0.5, 6.10, 1.44)
 (1.8, -3.46, 1.55)
                                                                             (0.5, -8.03, 0.35)
                                                                           22 reco jets, (p_{\perp}/\text{GeV}, y, \phi)
 (1.7, 3.97, -0.34)
                                                                             (68.1, -0.04, -2.66)
 (1.6, 3.97, 1.76)
 (1.6, 1.03, 1.82)
                                                                             (7.5, -0.40, -2.97)
 (1.6, -2.50, -2.20)
                                                                             (6.7, 1.19, 0.29)
 (1.6, 5.63, -2.47)
                                                                             (6.0, -0.27, -2.19)
 (1.5, 4.13, 1.24)
                                                                             (2.4, 0.32, -0.01)
 (1.4, -2.13, 0.14)
                                                                             (2.4, 2.05, 0.78)
 (1.4, -0.36, -0.84)
                                                                             (2.0, -1.96, -2.32)
 (1.3, 0.13, -0.50)
                                                                             (1.5, 0.32, -0.72)
                                                                             (1.4, -0.36, -0.84)
                                                                             (0.0 176 051)
```









```
Run 300000, Event 689649528, \mu = 20.5, N_{pv} = 13
                                                                             (1.3, 6.28, -2.44)
Truth (m_{\parallel}, p_{\parallel}, y_{\parallel}) = (92.1, 150.2, 1.36)
                                                                            (1.3, 2.10, 2.60)
Reco (m_{\parallel}, p_{\perp,\parallel}, y_{\parallel}) = (99.8, 169.3, 1.35)
                                                                             (1.3, 2.17, -0.40)
\Delta \phi(\text{II,j1}) = -3.03, \ \Delta R_{\text{i1}}^{\text{tru-rec}} = 0.00
                                                                             (1.2, 5.54, -1.53)
2 truth muons, (p_{\downarrow}/\text{GeV}, y, \phi)
                                                                             (1.2, -3.88, 1.28)
 (131.1, 1.24, -2.44)
                                                                             (1.2, 2.80, -0.26)
 (41.2, 1.74, -1.22)
                                                                             (1.1, -0.60, 0.35)
2 reco muons, (p_{\downarrow}/\text{GeV}, y, \phi)
                                                                             (1.1, 0.23, -2.65)
 (150.2, 1.24, -2.44)
                                                                             (1.0, -4.80, -1.32)
                                                                             (1.0, -3.32, -0.58)
 (42.3, 1.74, -1.22)
60 truth jets, (p_{\perp}/\text{GeV}, y, \phi)
                                                                             (0.9, -2.55, -0.78)
 (60.1, 0.20, 0.82)
                                                                             (0.9, 3.36, 2.80)
 (13.8, -2.31, -2.75)
                                                                             (0.9, -7.37, 0.25)
 (5.7, 2.06, -3.08)
                                                                             (0.9, 1.81, 1.55)
 (5.5, -3.30, -2.99)
                                                                             (0.8, 2.80, -2.00)
 (5.4, 0.37, -0.07)
                                                                             (0.7, 0.59, 2.41)
 (5.0, -2.11, 3.06)
                                                                             (0.7, -1.02, 0.90)
 (4.7, -0.62, -2.75)
                                                                             (0.7, 1.07, -0.31)
 (3.1, -2.76, 0.65)
                                                                             (0.7, -1.25, 1.93)
 (2.9, -0.01, 1.29)
                                                                             (0.7, -1.81, 0.80)
 (2.7, 2.88, 0.15)
                                                                             (0.7, -1.59, -1.70)
 (2.4, -3.66, 0.69)
                                                                             (0.7, 5.81, -2.32)
 (2.3, 0.11, 0.38)
                                                                             (0.6, -0.31, -2.41)
 (2.2, -2.57, 2.64)
                                                                             (0.6, -3.54, 2.03)
 (2.0, 0.81, 0.15)
                                                                             (0.6, -3.75, -2.51)
 (1.9, -0.33, 0.69)
                                                                             (0.6, -2.28, 1.71)
 (1.8, -0.91, -0.84)
                                                                             (0.5, 5.67, 2.18)
 (1.7, -0.62, 1.60)
                                                                             (0.5, 0.94, -1.13)
 (1.6, -5.50, -2.42)
                                                                             (0.5, -2.16, -1.87)
 (1.6, 0.60, -0.54)
                                                                             (0.5, 4.64, 2.48)
 (1.6, 5.95, -0.61)
                                                                             (0.5, -0.02, -0.45)
 (1.6, 0.15, 1.71)
                                                                             (0.5, 2.27, 1.84)
 (1.6, 5.36, 0.91)
                                                                             (0.5, -5.41, -0.98)
                                                                           27 reco jets, (p_{\tau}/\text{GeV}, y, \phi)
 (1.5, 6.04, -1.67)
 (1.5, -1.80, 1.69)
                                                                             (60.4, 0.20, 0.82)
 (1.5, 2.19, -2.49)
                                                                             (11.2, -2.33, -2.73)
 (1.5, -6.86, -0.71)
                                                                             (4.8, -0.66, -2.75)
 (1.4, 1.16, -2.07)
                                                                             (3.9, -2.15, 3.03)
                                                                             (2.8, 0.45, 0.01)
                                                                             (2.0 \ 0.00 \ 1.20)
```