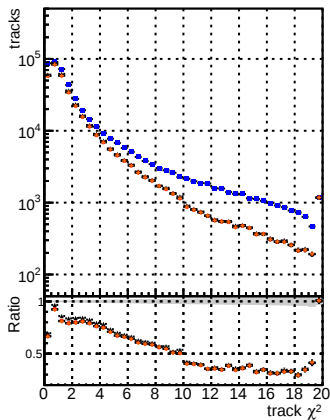


N of reco track vs normalized χ^2



N of associated (recoToSim) tracks vs normalized χ^2

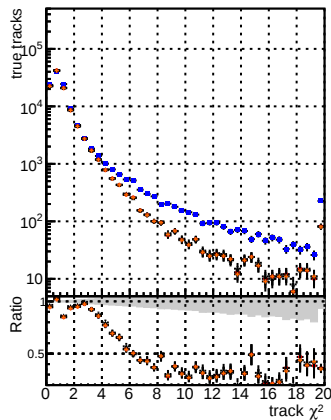


Figure 1 consists of two panels. The top panel shows the ratio of fake tracks to total tracks on a logarithmic scale (y-axis, ranging from 10^2 to 10^5) versus track χ^2 (x-axis, ranging from 0 to 20). The bottom panel shows the ratio on a linear scale (y-axis, ranging from 0.5 to 1.0) versus track χ^2 (x-axis, ranging from 0 to 20). Both panels show data points for two different track selection criteria (blue and orange) and a solid black line representing the expected ratio. The x-axis for both panels is 'track χ^2 '.

N of associated (recoToSim) looper tracks vs normalized χ^2

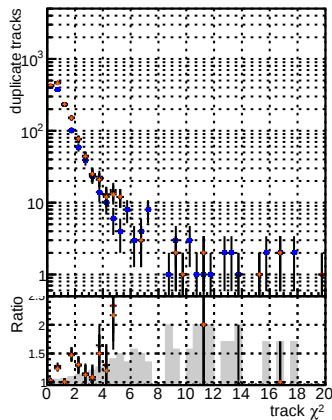
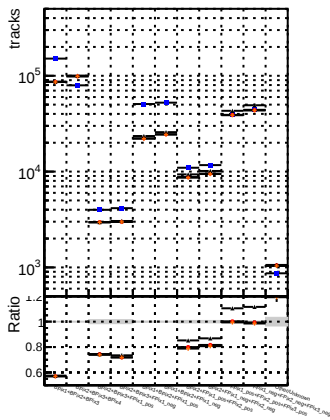
[illegible]

Figure 10 is a log-linear plot showing the ratio of fake tracks to total tracks for various particle types and decay channels. The y-axis is labeled 'Ratio' and ranges from 0.5 to 5 on a logarithmic scale. The x-axis lists 16 different particle types and decay channels. Data points are shown for three different methods: a solid line with circles, a dashed line with squares, and a dotted line with triangles. A horizontal grey band is present at Ratio = 1.0.

Particle Type / Decay Channel	Ratio (Solid Line)	Ratio (Dashed Line)	Ratio (Dotted Line)
$\pi^0 \rightarrow \gamma \gamma$	~5.0	~4.5	~4.0
$\eta \rightarrow \gamma \gamma$	~4.0	~3.5	~3.0
$\omega \rightarrow \pi^0 \pi^0$	~3.0	~2.5	~2.0
$\rho^0 \rightarrow \pi^+ \pi^-$	~2.0	~1.5	~1.0
$\pi^0 \rightarrow \pi^+ \pi^-$	~1.5	~1.0	~0.8
$\eta \rightarrow \pi^+ \pi^-$	~1.0	~0.8	~0.6
$\omega \rightarrow \pi^+ \pi^-$	~0.8	~0.6	~0.4
$\rho^0 \rightarrow \pi^+ \pi^-$	~0.6	~0.4	~0.3
$\pi^0 \rightarrow \pi^+ \pi^-$	~0.4	~0.3	~0.2
$\eta \rightarrow \pi^+ \pi^-$	~0.3	~0.2	~0.1
$\omega \rightarrow \pi^+ \pi^-$	~0.2	~0.1	~0.05
$\rho^0 \rightarrow \pi^+ \pi^-$	~0.1	~0.05	~0.02
$\pi^0 \rightarrow \pi^+ \pi^-$	~0.05	~0.02	~0.01
$\eta \rightarrow \pi^+ \pi^-$	~0.02	~0.01	~0.005
$\omega \rightarrow \pi^+ \pi^-$	~0.01	~0.005	~0.002
$\rho^0 \rightarrow \pi^+ \pi^-$	~0.005	~0.002	~0.001
$\pi^0 \rightarrow \pi^+ \pi^-$	~0.002	~0.001	~0.0005
$\eta \rightarrow \pi^+ \pi^-$	~0.001	~0.0005	~0.0002
$\omega \rightarrow \pi^+ \pi^-$	~0.0005	~0.0002	~0.0001
$\rho^0 \rightarrow \pi^+ \pi^-$	~0.0002	~0.0001	~0.00005