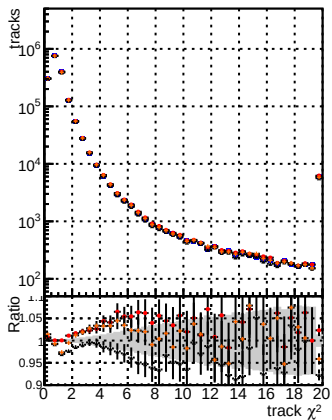
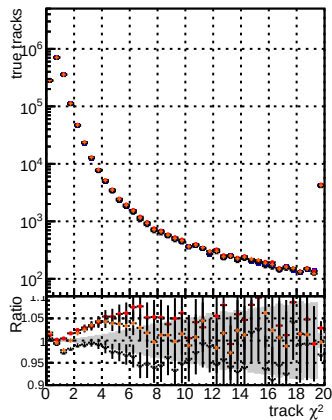


N of reco track vs normalized χ^2



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

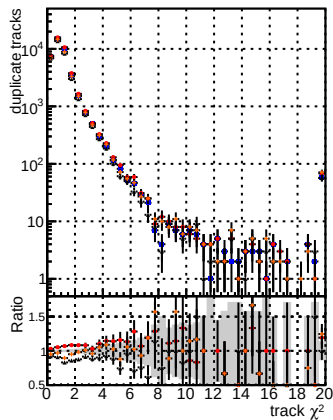


The figure consists of two vertically stacked panels sharing a common x-axis labeled 'track χ^2 ' ranging from 0 to 20.

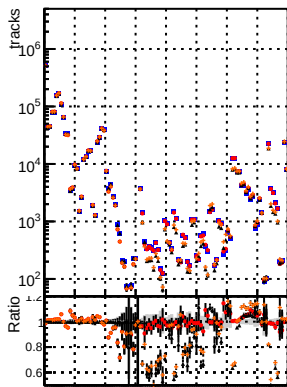
The top panel is a log-linear plot of 'fake tracks' (y-axis, logarithmic scale from 10^2 to 10^5) versus 'track χ^2 '. It shows data points for three different track types: blue circles, red circles, and orange circles. All three series show a rapid decrease in the number of fake tracks as χ^2 increases, starting from approximately 5×10^4 at $\chi^2 = 0$ and dropping to around 10^2 at $\chi^2 = 10$, then leveling off with some fluctuations between 10^2 and 10^3 for $\chi^2 > 10$.

The bottom panel is a linear plot of 'Ratio' (y-axis, linear scale from 0.8 to 1.4) versus 'track χ^2 '. It shows the ratio of the three track types (blue, red, orange) relative to each other. The ratios are clustered around 1.0 across the entire range of χ^2 . Each data point includes vertical error bars, indicating the uncertainty in the ratio.

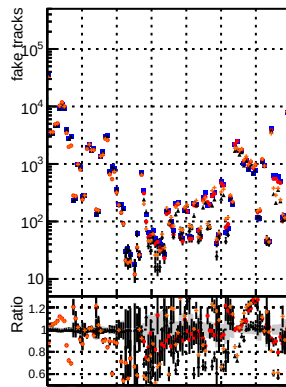
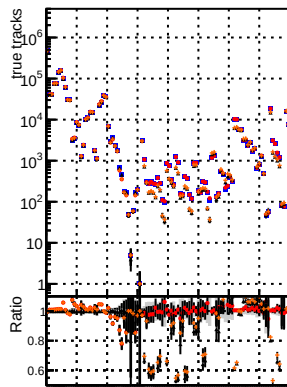
N of associated (recoToSim) looper tracks vs normalized χ^2



N of reco track vs. s	
0	0.00
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.00
18	0.00
19	0.00
20	0.00
21	0.00
22	0.00
23	0.00
24	0.00
25	0.00
26	0.00
27	0.00
28	0.00
29	0.00
30	0.00
31	0.00
32	0.00
33	0.00
34	0.00
35	0.00
36	0.00
37	0.00
38	0.00
39	0.00
40	0.00
41	0.00
42	0.00
43	0.00
44	0.00
45	0.00
46	0.00
47	0.00
48	0.00
49	0.00
50	0.00
51	0.00
52	0.00
53	0.00
54	0.00
55	0.00
56	0.00
57	0.00
58	0.00
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94	0.00
95	0.00
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98	0.00
99	0.00
100	0.00
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104	0.00
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121	0.00
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125	0.00
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127	0.00
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132	0.00
133	0.00
134	0.00
135	0.00
136	0.00
137	0.00
138	0.00
139	0.00
140	0.00
141	0.00
142	0.00
143	0.00
144	0.00
145	0.00
146	0.00
147	0.00
148	0.00
149	0.00
150	0.00
151	0.00
152	0.00
153	0.00
154	0.00
155	0.00
156	0.00
157	0.00
158	0.00
159	0.00
1	



```
base
retrainOldFiles125 v2 prelimWPM epoch4
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