

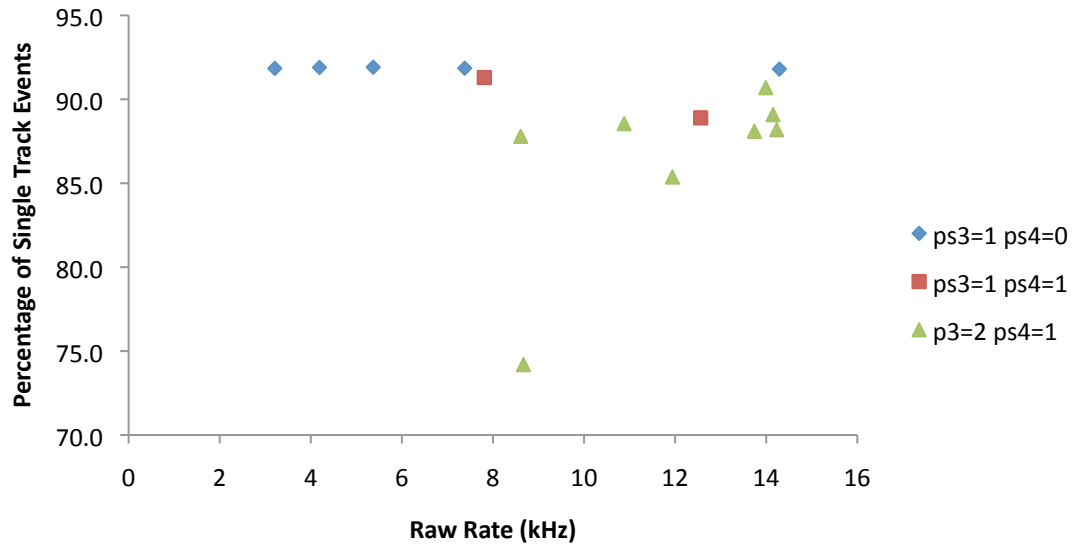
LHRS

| Run # | p (MeV) | Raw Rate (kHz) | ps3 | ps4 | % 1 Track Events |
|--------------|----------------|-----------------------|------------|------------|-------------------------|
| 1983 | 1.68 | 14.29 | 1 | 0 | 91.80 |
| 1989 | 1.68 | 7.38 | 1 | 0 | 91.85 |
| 1995 | 1.68 | 5.37 | 1 | 0 | 91.91 |
| 1996 | 1.68 | 4.19 | 1 | 0 | 91.90 |
| 1997 | 1.68 | 3.21 | 1 | 0 | 91.84 |
| 2020 | 1.68 | 7.81 | 1 | 1 | 91.30 |
| 2021 | 1.68 | 13.99 | 2 | 1 | 90.69 |
| 1821 | 1.70 | 10.88 | 2 | 1 | 88.55 |
| 2008 | 1.70 | 14.15 | 2 | 1 | 89.08 |
| 2012 | 1.70 | 8.61 | 2 | 1 | 87.80 |
| 2093 | 1.77 | 8.67 | 2 | 1 | 74.19 |
| 2097 | 1.75 | 11.94 | 2 | 1 | 85.37 |
| 1790 | 1.56 | 13.74 | 2 | 1 | 88.09 |
| 1767 | 1.70 | 14.23 | 2 | 1 | 88.19 |
| 1730 | 1.70 | 12.56 | 1 | 1 | 88.90 |

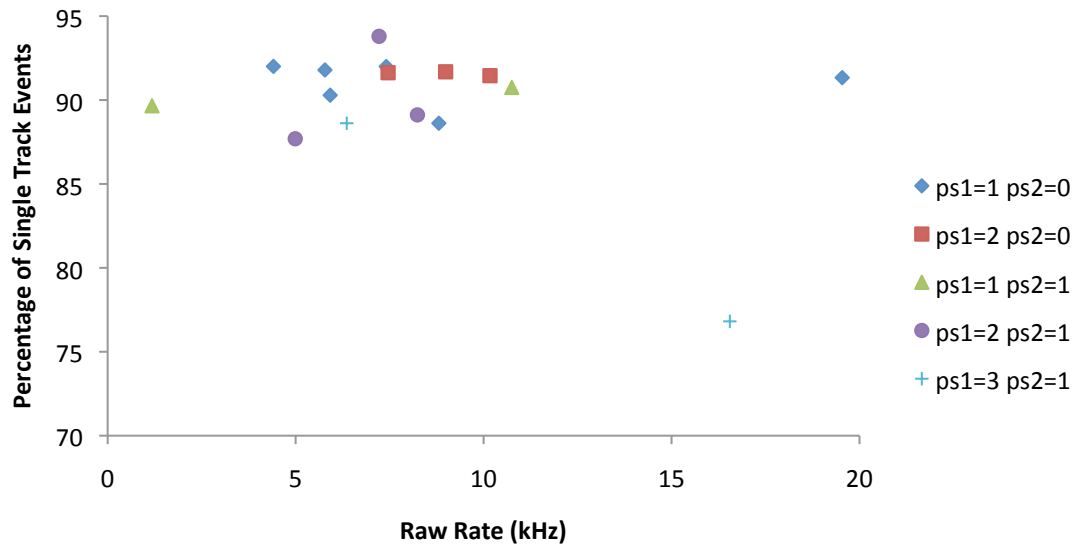
RHRS

| Run # | p (MeV) | Raw Rate (kHz) | ps1 | ps2 | % 1 Track Events |
|--------------|----------------|-----------------------|------------|------------|-------------------------|
| 21083 | 1.68 | 19.54 | 1 | 0 | 91.34 |
| 21095 | 1.68 | 7.41 | 1 | 0 | 92.00 |
| 21096 | 1.68 | 5.78 | 1 | 0 | 91.79 |
| 21097 | 1.68 | 4.41 | 1 | 0 | 92.01 |
| 21185 | 1.75 | 6.36 | 3 | 1 | 88.62 |
| 21189 | 1.73 | 16.55 | 3 | 1 | 76.81 |
| 21192 | 1.70 | 1.18 | 1 | 1 | 89.66 |
| 21216 | 1.70 | 5.92 | 1 | 0 | 90.29 |
| 21120 | 1.68 | 10.75 | 1 | 1 | 90.75 |
| 21011 | 1.56 | 8.81 | 1 | 0 | 88.62 |
| 21092 | 1.68 | 8.99 | 2 | 0 | 91.68 |
| 21094 | 1.68 | 7.46 | 2 | 0 | 91.63 |
| 21089 | 1.68 | 10.17 | 2 | 0 | 91.45 |
| 21012 | 1.56 | 4.99 | 2 | 1 | 87.69 |
| 21017 | 1.32 | 8.24 | 2 | 1 | 89.12 |
| 21182 | 0.41 | 7.219 | 2 | 1 | 93.80 |

% of Single Track Events vs Rate: LHRS



% of Single Track Events vs Rate: RHRS



L/R HRS Cuts

1. $\text{abs}(\text{L.gold.dp}) < 0.05$
 $\text{abs}(\text{R.gold.dp}) < 0.05$
2. $\text{abs}(\text{L.gold.th}) < 0.05$
 $\text{abs}(\text{R.gold.th}) < 0.05$
3. $\text{abs}(\text{L.gold.ph} + 0.373) < 0.05$
 $\text{abs}(\text{R.gold.ph} - 0.03109) < 0.05$
4. $\text{L.vdc.u1}(\text{u2}, \text{v1}, \text{v2}).\text{nclust} == 1$
 $\text{R.vdc.u1}(\text{u2}, \text{v1}, \text{v2}).\text{nclust} == 1$
5. $\text{abs}(\text{L.tr.tg}_y) < 0.05$
 $\text{abs}(\text{R.tr.tg}_y) < 0.05$
6. $\text{L.cer.asum}_p > 450$
 $\text{R.cer.asum}_p > 250$
7. $(\text{L.prl1.asum}_p + \text{L.prl2.asum}_p) > 1500$
 $(\text{R.ps.asum}_p + \text{R.sh.asum}_p) > 4000$

LHRS Run #1983 p=1.68 MeV, raw rate = 14.29 kHz

| Cuts Applied | # of Events | % of Total | # of Single Track Events | % of Total Events | % of "Cut" Events |
|--------------|-------------|------------|--------------------------|-------------------|-------------------|
| none | 100000 | 100.0 | 91801 | 91.8 | 91.8 |
| 1,2,3 | 76062 | 76.1 | 74979 | 75.0 | 98.6 |
| 4 | 82512 | 82.5 | 82512 | 82.5 | 100.0 |
| 5 | 86817 | 86.8 | 83942 | 83.9 | 96.7 |
| 6,7 | 86518 | 86.5 | 83547 | 83.5 | 96.6 |
| 1-7 | 66069 | 66.1 | 66069 | 66.1 | 100.0 |

RHRS Run # 21083 p=1.68 MeV, raw rate = 19.54 kHz

| Cuts Applied | # of Events | % of Total | # of Single Track Events | % of Total Events | % of "Cut" Events |
|--------------|-------------|------------|--------------------------|-------------------|-------------------|
| none | 100000 | 100.0 | 91335 | 91.3 | 91.3 |
| 1,2,3 | 77793 | 77.8 | 76633 | 76.6 | 98.5 |
| 4 | 82444 | 82.4 | 82443 | 82.4 | 100.0 |
| 5 | 87420 | 87.4 | 84812 | 84.8 | 97.0 |
| 6,7 | 84939 | 84.9 | 82557 | 82.6 | 97.2 |
| 1-7 | 67862 | 67.9 | 67862 | 67.9 | 100.0 |