linac_variations

| Inj_P | NL_P | SL_P | P^2_A1 | P^2_B5 | P^2_C5 | P_D(MeV/c) | P^2_C1 | angle w flipper | scenario |
|---|---|---|---|---|---|---|---|---|---|
| 122 | 1052 | 1052 | 1 | 0.994 | 0.999 | 11634 | 0.895 | 50.02 | |
| 117 | 1042 | 1042 | 1 | 0.98 | 0.999 | 11521 | 0.936 | 58.28 | |
| 123 | 1048 | 1055 | 1 | 0.985 | 0.976 | 11626 | 0.895 | 51.25 | |
| 123 | 1055 | 1048 | 1 | 0.994 | 0.998 | 11633 | 0.891 | 48.39 | dashed hope |
| 118 | 1030 | 1057 | 1 | 1 | 0.993 | 11525 | 0.93 | 62.43 | stretch goal |
| 105 | 1057 | 1030 | 1 | 0.999 | 0.98 | 11539 | 0.946 | 57.82 | |
| 123 | 1050 | 1030 | 1 | 0.977 | 1 | 11515 | 0.933 | 52.39 | |
| **124** | 1050 | 1030 | 1 | 0.992 | 0.998 | 11516 | 0.931 | 51.9 | |
| 121 | 1031 | 1031 | 1 | 0.97 | 0.991 | **11405** | 0.959 | 62.67 | unlikely |
| 122 | 1001 | 1021 | 1 | **0.917** | **0.93** | **11181** | 0.992 | 77.83 | likely |
| 120 | 1000 | 1000 | 1 | **0.864** | **0.884** | **11070** | 0.956 | 81.1 | |
| 123.25 | 980 | 1000 | 1 | **0.829** | **0.819** | **10956** | 0.999 | **89.36** | likely |
| 110.5 | 980 | 1005 | 1 | **0.826** | **0.835** | **10968** | 0.997 | **-84.77** | likely |

***bold: problematic*** ochre: try for one of these solutions

| | |
|---|---|
| P^2 | polarization squared figure of merit |
| A1 | first pass to A, parity experiment |
| B5, C5 | fifth pass to B, C |
| P_D(MeV/c) | momentum to hall D |

NL best estimate 11/8: 1020 will yield too much heat to tolerate
SL seven faults per hour at 1075, two per hour at 1048

***And for the distant future***

| Inj_real_P | NL_real_P | SL_real_P | P^2_A5 | P^2_B5 | P^2_C5 | P_D(MeV/c) | P^2_D | angle w flipper |
|---|---|---|---|---|---|---|---|---|
| 115 | 1056 | 1056 | 1 | 0.993 | 0.971 | 11670 | 0.962 | -6.48 |
| 115 | 1060 | 1060 | 1 | 0.981 | 0.92 | 11713 | 0.819 | -83.13 |
| 123 | 1060 | 1060 | 1 | 0.977 | 0.907 | 11720 | 0.78 | 66.91 |
| 115 | 1070 | 1070 | 1 | 0.921 | 0.703 | 11820 | 0.248 | 87.74 |
| 123 | 1069 | 1069 | 1 | 0.923 | 0.708 | 11817 | 0.263 | 76.91 |
| 123 | 1080 | 1080 | 1 | 0.816 | 0.393 | 11934 | 0.018 | 46.77 |
| 123 | 1090 | 1090 | 1 | 0.694 | 0.145 | 12041 | 0.459 | 34.83 |