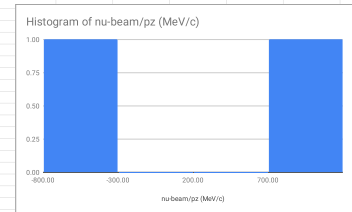


Numbers initially seen in Rows 6-9, Columns C-N are placeholders only. Please overwrite them as you enter actual data.

Cells below (Columns O, P, and Q) contain formulas. Do not overwrite!

| merged Tuple | Entry | Background<br>(enter a 1) | Signal Event<br>Slice No. | Muon<br>KE (MeV) | v/c      | px (MeV/c) | py (MeV/c) | pz (MeV/c) | Proton<br>KE (MeV) | v/c | px (MeV/c) | py (MeV/c) | pz (MeV/c) | Net<br>px (MeV/c) | Net<br>py (MeV/c) | nu-beam<br>pz (MeV/c) |          |
|--------------|-------|---------------------------|---------------------------|------------------|----------|------------|------------|------------|--------------------|-----|------------|------------|------------|-------------------|-------------------|-----------------------|----------|
| 126          | 0     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 1     |                           |                           | 20               | 2,000.00 | 0.9        | 200        | -400       | 700.00             | 100 | 0.5        | 400        | -200       | 300               | 600.00            | -700.00               | 1,000.00 |
| 126          | 2     |                           |                           | 30               | 3,000.00 | 0.9        | 400        | 1000       | -1,400.00          | 200 | 0.4        | 200        | 199        | 600               | 600.00            | 1,199.00              | 800.00   |
| 126          | 3     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 4     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 5     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 6     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 7     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 8     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 9     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 10    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 11    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 12    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 13    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 14    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 15    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 16    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 17    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 18    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 19    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 20    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 21    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 22    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 23    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 24    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 25    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 26    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 27    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 28    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 29    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 30    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 31    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 32    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 33    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 34    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 35    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 36    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 38    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 39    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 40    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 41    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 42    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 43    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 44    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 45    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 46    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 47    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 48    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 49    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 126          | 50    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 0     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 1     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 2     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 3     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 4     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 5     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 6     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 7     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 8     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 9     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 10    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 11    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 12    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 13    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 14    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 15    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 16    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 17    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 18    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 19    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 20    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 21    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 22    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 23    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 24    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 25    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 26    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 27    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 28    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 29    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 30    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 31    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 32    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 33    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 34    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 35    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 36    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 37    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 38    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 39    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 40    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 41    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 42    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 43    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 44    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 45    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 46    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 47    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 48    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 49    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 127          | 50    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 0     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 1     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 2     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 3     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 4     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 5     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 6     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 7     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 8     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 9     |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 10    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 11    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 12    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 13    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 14    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 15    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 16    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 17    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 18    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 19    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 20    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 21    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 22    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 23    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 24    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 25    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 26    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 27    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 28    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 29    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 30    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 31    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 32    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 33    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 34    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 35    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 36    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 37    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |
| 128          | 38    |                           |                           |                  |          |            |            |            |                    |     |            |            |            |                   |                   |                       |          |















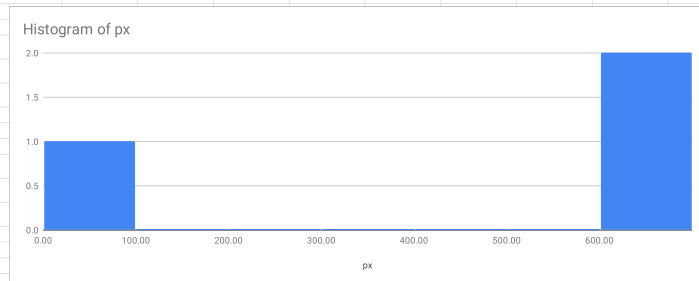
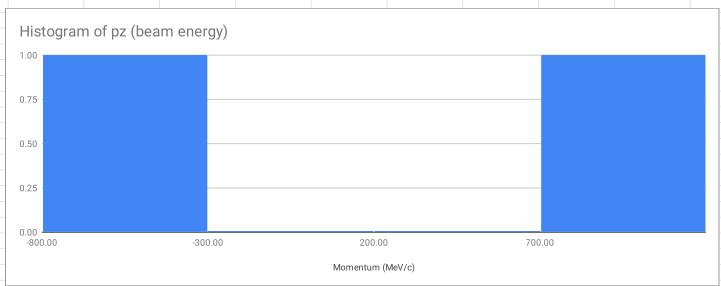






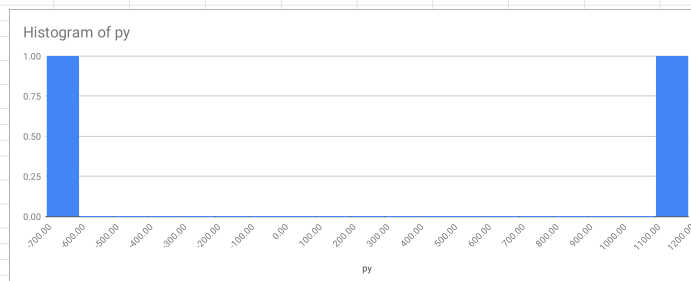


| px     | py       | pz       |
|--------|----------|----------|
| 600.00 | -700.00  | 1,000.00 |
| 600.00 | 1,199.00 | -800.00  |



Calculated:  
 Std Dev = #REF! MeV/c  
 delta-x = #REF! fm (Heisenberg)  
 delta-x = #REF! fm (Fermi Gas)

Visual:  
 Std Dev = MeV/c  
 delta-x = #DIV/0! fm (Heisenberg)  
 delta-x = #DIV/0! fm (Fermi Gas)



Calculated:  
 Std Dev = #REF! MeV/c  
 delta-y = #REF! fm (Heisenberg)  
 delta-y = #REF! fm (Fermi Gas)

Visual:  
 Std Dev = 250.00 MeV/c  
 delta-x = 0.40 fm (Heisenberg)  
 delta-x = 1.20 fm (Fermi Gas)



















































