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 (enter a 1)	Signal Event Slice No.	Muon KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Proton KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Net px (MeV/c)	Net py (MeV/c)	nu-beam pz (MeV/c)
1	0		8	3,900.91	0.99966		-618.13	3,950.59		0.51	-404.93	168.17	333.07	-404.93	-449.96	4,283.65
1	1					149.72	0.91	-105.89		113.23	172.70			322.42	0.91	-105.89
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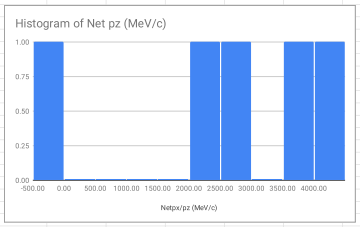

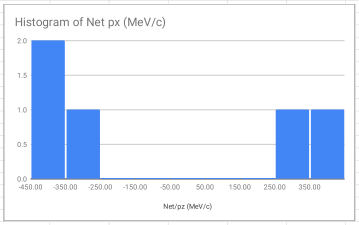

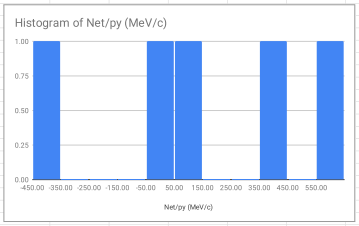

No. bkg events = 7

delta-px (MeV/c) (FWHM/2) =

delta-py (MeV/c) (FWHM/2) =

delta-x (fm) (simple calc) = #DIV/0!

delta-y (fm) (simple calc) = #DIV/0!

delta-x (fm) (Fermi gas) = #DIV/0!

delta-y (fm) (Fermi gas) = #DIV/0!

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		Background	Signal Event	Muon					Proton					Net	Net	nu-beam
Tuple	Entry	(enter a 1)	Slice No.	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	KE (MreV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	px (MeV/c)	py (MeV/c)	pz (MeV/c)
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5	21	-	3	2539.411885	0.9992113911	395.6924894	409.8119283	2580.188143						395.69	409.81	2,580.19
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merged		Background	Signal Event	Muon					Proton					Net	Net	nu-beam
Tuple	Entry	(enter a 1)	Slice No.	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	KE (MreV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	px (MeV/c)	py (MeV/c)	pz (MeV/c)
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merged		Background	Signal Event	Muon					Proton					Net	Net	nu-beam
Tuple	Entry	(enter a 1)	Slice No.	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	KE (MreV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	px (MeV/c)	py (MeV/c)	pz (MeV/c)
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11	0			3586.882075	0.9995954792	-335.3626468	602.4050319	3625.411471						-335.36	602.41	3,625.41
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merged		Background	Signal Event	Muon					Proton					Net	Net	nu-beam
Tuple	Entry	(enter a 1)	Slice No.	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	KE (MreV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	px (MeV/c)	py (MeV/c)	pz (MeV/c)
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merged Tuple	Entry	Background (enter a 1)	Signal Event Slice No.	Muon KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Proton KE (MreV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Net px (MeV/c)	Net py (MeV/c)	nu-beam pz (MeV/c)
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merged Tuple	Entry	Background (enter a 1)	Signal Event Slice No.	Muon KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Proton KE (MreV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Net px (MeV/c)	Net py (MeV/c)	nu-beam pz (MeV/c)
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merged Tuple	Entry	Background (enter a 1)	Signal Event Slice No.	Muon KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Proton KE (MreV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Net px (MeV/c)	Net py (MeV/c)	nu-beam pz (MeV/c)
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*Cells below (Columns O, P, and Q) contain formulas. Do **not** overwrite!*

merged Tuple	Entry	Background (enter a 1)	Signal Event Slice No.	Muon KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Proton KE (MreV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Net px (MeV/c)	Net py (MeV/c)	nu-beam pz (MeV/c)
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*Cells below (Columns O, P, and Q) contain formulas. Do **not** overwrite!*

merged Tuple	Entry	Background (enter a 1)	Signal Event Slice No.	Muon KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Proton KE (MreV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Net px (MeV/c)	Net py (MeV/c)	nu-beam pz (MeV/c)
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25	1		4	2172.523056	0.9989367045	-406.9581666	113.1104943	2235.548554						-406.96	113.11	2,235.55
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merged Tuple	Entry	Background (enter a 1)	Signal Event Slice No.	Muon KE (MeV)	Muon v/c	Muon px (MeV/c)	Muon py (MeV/c)	Muon pz (MeV/c)	Proton KE (MeV)	Proton v/c	Proton px (MeV/c)	Proton py (MeV/c)	Proton pz (MeV/c)	Net px (MeV/c)	Net py (MeV/c)	nu-beam pz (MeV/c)
26	0		11	4,828.58	0.99977	61.89	574.73	4,898.48	1,427.80	0.92	27.30	253.10	2,156.90	89.19	827.83	7,055.38
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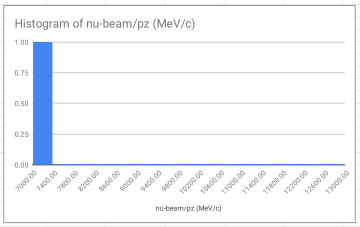

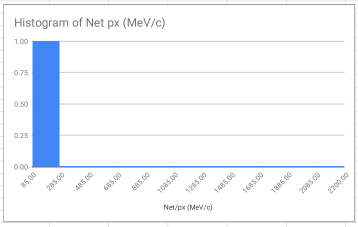

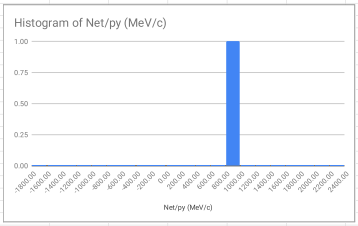

No. bkg events =	0

delta-px (MeV/c) (FWHM/2) =		delta-py (MeV/c) (FWHM/2) =	400
delta-x (fm) (simple calc) =	#DIV/0!	delta-y (fm) (simple calc) =	0.25
delta-x (fm) (Fermi gas) =	#DIV/0!	delta-y (fm) (Fermi gas) =	0.75

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merged Tuple	Entry	Background (enter a 1)	Signal Event Slice No.	Muon KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Proton KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Net px (MeV/c)	Net py (MeV/c)	nu-beam pz (MeV/c)
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merged Tuple	Entry	Background (enter a 1)	Signal Event Slice No.	Muon KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Proton KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Net px (MeV/c)	Net py (MeV/c)	nu-beam pz (MeV/c)
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merged		Background	Signal Event	Muon					Proton					Net	Net	nu-beam
Tuple	Entry	(enter a 1)	Slice No.	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	px (MeV/c)	py (MeV/c)	pz (MeV/c)
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merged		Background	Signal Event	Muon					Proton					Net	Net	nu-beam
Tuple	Entry	(enter a 1)	Slice No.	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	px (MeV/c)	py (MeV/c)	pz (MeV/c)
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merged		Background	Signal Event	Muon					Proton					Net	Net	nu-beam
Tuple	Entry	(enter a 1)	Slice No.	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	px (MeV/c)	py (MeV/c)	pz (MeV/c)
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merged Tuple	Entry	Background (enter a 1)	Signal Event Slice No.	Muon KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Proton KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Net px (MeV/c)	Net py (MeV/c)	nu-beam pz (MeV/c)
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merged Tuple	Entry	Background (enter a 1)	Signal Event Slice No.	Muon KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Proton KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Net px (MeV/c)	Net py (MeV/c)	nu-beam pz (MeV/c)
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*Cells below (Columns O, P, and Q) contain formulas. Do **not** overwrite!*

merged		Background	Signal Event	Muon					Proton					Net	Net	nu-beam
Tuple	Entry	(enter a 1)	Slice No.	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	px (MeV/c)	py (MeV/c)	pz (MeV/c)
49	14															
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50	50															

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 (enter a 1)	Signal Event Slice No.	Muon KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Proton KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Net px (MeV/c)	Net py (MeV/c)	nu-beam pz (MeV/c)

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

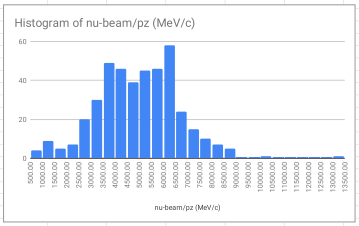
*Cells below (Columns O, P, and Q) contain formulas. Do **not** overwrite!*

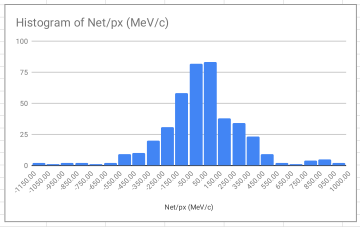
merged		Background	Signal Event	Muon					Proton					Net	Net	nu-beam
Tuple	Entry	(enter a 1)	Slice No.	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	px (MeV/c)	py (MeV/c)	pz (MeV/c)

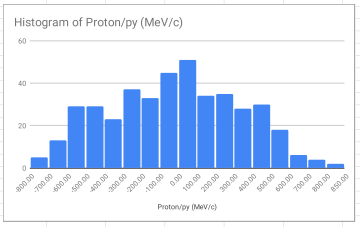
Numbers initially seen in Rows 6-9, Columns C-N are placeholders only. Please overwrite them as you enter actual data.

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

merged Tuple	Entry	Background (enter a 1)	Signal Event Slice No.	Muon KE (MeV)	Muon v/c	Muon px (MeV/c)	Muon py (MeV/c)	Muon pz (MeV/c)	Proton KE (MeV)	Proton v/c	Proton px (MeV/c)	Proton py (MeV/c)	Proton pz (MeV/c)	Net px (MeV/c)	Net py (MeV/c)	nu-beam pz (MeV/c)
51	0	1														
51	1		9	5,042.41	0.99979	508.01	220.79	5,116.44	193.87	0.56	-240.80	288.14	510.16	267.20	-67.35	5,626.61
51	2		8	3181.792699	0.9994895951	-166.5230061	433.4600838	3252.132176	207.2243865	0.5737171988	257.6711588	-500.1722306	339.3054804	91.15	-66.71	3,591.44
51	3		6	4724.874058	0.9997636649	384.9416507	306.5327482	4803.594073	305.5163983	0.6565155045	-554.1489745	-16.11480009	599.2897963	-169.21	290.42	5,402.88
51	4		9	4,803.07	0.99977	461.83	120.51	4,883.68	205.24	0.57	-350.12	-85.11	545.29	111.72	35.40	5,428.97
51	5		9	5,194.74	0.99980	-494.78	119.43	5,274.19	269.16	0.63	326.43	-122.72	675.12	-168.35	-3.30	5,949.31
51	6	1														
51	7		12	5,507.77	0.9998250022	-230.8218807	-424.2500611	5,590.96	307.6600039	0.6580039644	222.9358765	436.7023398	656.8222794	-7.89	12.45	6,247.78
51	8	1														
51	9	1														
51	10		8	1,489.24	0.9223118453	-87.0110358	259.676687	2,221.86	363.5683909	0.6932792959	214.376303	-715.0476936	506.94	127.37	-455.37	2,728.80
51	11		3	5,962.19	0.9998502366	109.2398682	-549.9947214	6,040.31	368.5146999	0.6961043293	-72.2061213	829.9037346	364.9420889	37.03	279.91	6,405.25
51	12	1														
51	13	1														
51	14		1	4,781.00	0.9997690635	524.0643744	-226.7506837	4,851.38	233.7073492	0.5992777296	-333.6409148	225.5295383	575.216724	190.42	-1.22	5,426.60
51	15		1	1,043.83	0.995814494	-645.0930291	-198.0643729	923.80	585.0361713	0.787843833	301.0459938	434.9662033	1077.019448	-344.05	236.90	2,000.82
51	16		1													
51	17		15	3,516.83	0.9995796759	-459.8110376	114.7049998	3,589.15	185.9488453	0.5509207636	561.9968687	-195.5242174	171.3090971	102.19	-80.82	3,760.46
51	18		3	3,413.09	0.9995545172	417.9435775	152.4842871	3,488.27	223.4361022	0.5897021107	-163.8786659	-220.0388103	627.5484894	254.07	-67.55	4,115.82
51	19		27	5,044.15	0.9997920674	450.0260036	-389.3206603	5,113.57	138.6096183	0.4908331425	-300.5582223	274.0351039	337.3629894	149.47	-115.29	5,450.94
51	20		1	6,288.01	0.999865114	264.7144523	-549.1397983	6,363.01	225.6923178	0.591840648	-415.3224871	374.9142187	401.5997646	-150.61	-174.23	6,764.61
51	21	1														
51	22		3	2633.384922	0.9992646073	-494.609777	-307.4641842	2673.677977	250.30	0.6139257691	502.2525769	332.406518	411.65	7.64	24.94	3,085.33
51	23		13	3,727.96	0.9996247142	-217.0874311	-510.2374608	3,791.18	208.9954317	0.5755184652	256.6982311	434.185495	425.8444486	39.61	-76.05	4,217.03
51	24	1														
51	25		1	5,960.62	0.9998501591	76.73439402	-492.5471503	6,044.19	178.1335277	0.5419647191	-304.5178298	2.39379285	522.6597485	-227.78	-490.15	6,566.85
51	26	1														
51	27		4	4139.424812	0.9996939606	237.4252877	-522.0457533	4204.190106	181.1840717	0.5455003876	-311.9526841	406.368941	332.0825093	-74.53	-115.68	4,536.27
51	28		5	4,743.73	0.9997654992	605.6376162	-274.5460165	4,801.76	368.7125621	0.6962164324	-684.1238255	410.2048953	437.45	-78.49	135.66	5,239.21
51	29	1														
51	30	1														
51	31	1														
51	32		12	3,935.50	0.9996622838	-72.85703977	-687.9534136	3,979.45	247.8715868	0.6118427769	85.72283037	556.0626043	458.141241	12.87	-131.89	4,437.59
51	33		5	6,060.29	0.9998549648	241.4885845	548.6193533	6,135.18	177.7757032	0.5415465685	-325.5748859	-442.9981162	250.7291018	-84.09	105.62	6,385.91
51	34		13	5,087.91	0.9997955574	-543.2033207	-97.68029129	5,162.43	258.8214969	0.6210857639	627.8012607	-125.2634014	377.7728853	84.60	-222.94	5,540.20
51	35	1														
51	36		5	3,945.97	0.9996640275	-190.1717517	-383.2470813	4,026.94	229.7243913	0.5956127238	206.1228638	582.7833399	318.7682508	15.95	199.54	4,345.71
51	37		21	1,054.65	0.995892407	-34.31034605	446.2042449	1,064.65	184.6433003	0.5494477495	184.7863279	-25.08121578	587.9701739	150.48	421.12	1,652.62
51	38		5	5,466.08	0.9998223735	-463.0843667	-77.05101178	5,550.28	169.5791564	0.5317648245	510.8621319	22.12279161	292.2636686	47.78	-54.93	5,842.54
51	39	1														
51	40		2	6,637.24	0.9998787264	472.7878879	132.4859665	6,723.52	384.11	0.704734936	-671.425223	-413.2837591	496.51	-198.64	-280.80	7,220.03
51	41		2	3,425.97	0.9995577613	-440.7608482	325.8148977	3,486.59	184.0213046	0.5487427625	42.96263203	-166.7275724	591.1378324	-397.80	159.09	4,077.73
51	42	1														
51	43	1														
51	44	1														
51	45	1														
51	46	1														
51	47	1														
51	48		14	6,085.32	0.9998561354	-111.2819497	-499.0406199	6,168.27	255.4308807	0.6182655612	504.0879691	467.4710495	267.9541085	392.81	-31.57	6,436.23
51	49		1	6,121.42	0.9998577992	740.614597	-95.22474855	6,180.60	367.6250011	0.6955993974	-748.5066699	-1.275981617	514.3430571	-7.89	-96.50	6,694.94
51	50															
52	0		11	298.60	0.9655653702	92.45921055	-117.1397804	359.99	522.3565562	0.7664458811	265.5590187	-336.4459306	1033.963159	358.02	-453.59	1,393.96
52	1		10	5,192.14	0.9998035247	-843.3676437	-1082.73271	5,115.18	1202.583702	0.8988783605	-306.4035333	-393.3671518	1858.395476	-1,149.77	-1,476.10	6,973.58
52	2		14	4705.278747	0.9997617352	-250.0287094	422.2877321	4784.027105	1323.279967	0.9099083635	-106.9732319	180.6731859	2046.816313	-357.00	602.96	6,830.84
52	3		2	4,151.63	0.9996957135	6.019809659	162.3846595	4,252.23	1439.748675	0.9188998863	3.090886543	83.37681542	2183.31938	9.11	245.76	6,435.55
52	4		11	1,441.69	0.997693022	-182.7655283	421.4666199	1,473.16	1689.201969	0.9340914512	-290.6544741	670.2640257	2342.778756	-473.42	1,091.73	3,815.93
52	5		16	1038.593208	0.9957760024	-0.6649821872	43.40820495	1137.934845	1309.171544	0.9087166077	-1.192453577	77.84008396	2040.557631	-1.86	121.25	3,178.49
52	6		11	6,101.44	0.9998568818	281.2546424	-460.6775047	6,182.03	1424.988318	0.9178380779	98.29854971	-161.0068734	2160.6212	379.55	-621.68	8,342.65
52	7	1														
52	8		2	6,705.56	0.9998811473	-418.4284383	-967.3340885	6,727.69	1175.798225	0.8961501447	-116.3950275	-269.0851471	1871.455133	-534.82	-1,236.42	8,599.15
52	9		9	4,287.69	0.9997142741	655.1891686	-257.1432161	4,334.66	1417.185188	0.9172681579	322.3158361	-126.4998487	2132.407926	977.51	-383.64	6,467.07
52	10		3	5,078.24	0.9997947941	-360.0547709	-205.488583	5,165.57	1352.857374	0.9123309035	-145.2133183	-82.87538848	2,083.32	-505.27	-288.36	7,248.89
52	11	1														
52	12		6	2,114.18	0.9988800257	468.6480376	-421.628955	2,125.16	1266.991558	0.9050061631	421.8907892	-379.562824	1913.1346	890.54	-801.19	4,038.30
52	13		3	4,340.73	0.9997210516	469.4532967	6.331125521	4,419.62	1356.10024	0.912590444	221.1358722	2.982275285	2081.860213	690.59	9.31	6,501.48
52	14		13	6,494.09	0.9998734077	153.8047719	-459.959968	6,580.41	1387.115675	0.9150145721	49.59218801	-148.3075404	2121.175974	203.40	-608.27	8,702.17
52	15		15	2,411.60	0.9991292198	-475.2283417	-219.9866383	2,459.27	1412.216042	0.9169020756	-407.2835032	-188.5344809	2107.663717	-882.51	-408.52	4,566.94
52	16	1														
52	17		12	1,379.13	0.9974941756	114.1241214	17.35021574	1,475.90	1634.175649	0.9311361107	184.6331381	28.06965556	2387.753393	298.76	45.42	3,863.65
52	18		9	11,096.95	0.999956069	322.4919545	61.27850239	11,196.65	1122.851933	0.890413974	52.83029336	10.03857992	1834.223235	375.32	71.32	13,030.87
52	19		2	6,103.09	0.9998569578	227.2188936	-9.644347252	6,203.03	1104.186382	0.8882751863	66.40360838	-2.818513231	1812.805515	293.62	-12.46	8,015.84
52	20		1	6,134.83	0.9998584097	291.395833	-326.733424	6,223.57	1554.776859	0.9265030764	107.8703765	-120.9518238	2,303.87	399.27	-447.69	8,527.44
52	21		7	5,347.75	0.9998145792	-15.64421325	-500.0538228	5,428.73	1364.840203	0.9132841266	-6.035159564	-192.9086853	2094.272861	-21.68	-692.96	7,523.00
52	22		16	6,351.93	0.9998677714	-265.8850089	-555.055403	6,426.67	1,250.82	0.9035222611	-81.4468763	-170.0266177	1,968.64	-347.33	-725.08	8,395.32
52	23		1	4,985.47	0.9997872451	335.5886373	413.4114458	5,061.45	1549.890376	0.9262025699	151.9424834	187.1778563	2291.644051	487.53	600.59	7,353.10
52	24		5	3,868.01	0.9996507101	-171.5783722	-542.7575655	3,930.61	1521.468715	0.9244170433	-98.22099333	-310.7045868	2250.101699	-269.80	-853.46	6,180.72
52	25		11	3,210.00	0.9994982473	-271.0390726	-262.2115159	3,291.81	1169.784436	0.8955220992	-154.4075198	-149.3785728	1875.301466	-425.45	-411.59	5,167.11
52	26	1														
52	27		7	2,880.29	0.9993812566	-609.333033	45.17284324	2,920.20	1,592.15	0.9287408839	-479.9296301	35.57953495	2,300.04	-1,089.26	80.75	5,220.25
52	28	1														
52	29		17	4,240.70	0.9997080614	-48.54737969	-569.8521186	4,306.63	1262.820926	0.904626796	-22.24777155	-261.1457061	1973.594869	-70.80	-831.00	6,280.22
52	30		1	5,067.25	0.9997939209	-246.5292106	630.5221689	5,126.68	1298.270976	0.9077792385	-96.77939698	247.5226167	2012.568056	-343.31	878.04	7,139.25
52	31		18	5,856.35	0.999844871	556.9050664	135.2253557	5,932.81	1464.834215	0.9206570703	206.6929234	50.18830996	2201.9372	763.60	185.41	8,134.75
52	32															
52	33	1														
52	34		6	3,901.90	0.9996565948	613.2997971	53.63663702	3,957.93	1342.628279	0.911504467	318.2930502	27.83657989	2054.102238	931.59	81.47	6,012.03
52	35	1														
52	36		5	6,374.08	0.9998686743	401.9028378	166.4963076	6,463.61	1311.600743	0.9089235163	126.8519737	52.55097313	2040.099624	528.75	219.05	8,503.71
52	37		9	2,396.09	0.9991183787	306.4366843	433.8210224	2,441.78	1343.148624	0.9115467939	254.9924737	360.9916871	2031.860942	561.43	794.81	4,473.65
52	38		9	5,539.43	0.99982696	-168.9659022	-728.6499519	5,593.66	1555.859419	0.9265693991	-69.18378305	-298.3487173	2290.34767	-238.15	-1,027.00	7,884.01
52	39	1														
52	40		9	5,514.25	0.9998254058	723.9176813	243.7745868	5,566.10	1235.706951	0.9021029348	252.6641889	85.08302788	1,942.70	976.58	328.86	7,508.80
52	41		14	5,413.56	0.9998189759	641.587605	161.4502808	5,477.75	1268.776776	0.905167844	232.2717161	58.44928032	1983.091846	873.86	219.90	7,460.85
52	42		9	3,652.47	0.9996094801	-399.3459683	319.3293721	3,721.03	1520.884583	0.924379659	-241.6642175	193.2421734	2251.782685	-641.01	512.57	5,972.81
52	43		16	5,353.07	0.9998149406	-195.1793739	-420.9323208	5,437.30	1,243.22	0.9028120285	-70.43223569	-151.8972206	1,962.10	-265.61	-572.83	7,399.39
52	44		7	2,793.73	0.9993437415	273.0039338	-498.4979991	2,840.53	1331.006762	0.9105510061	194.7089838	-355.5334806	2025.890431	467.71	-854.03	4,866.42
52	45		1	4,031.59	0.9996777945	-412.4801327	221.8667579	4,108.65	1348.335684	0.9119670439	-207.9789165	111.8686799	2071.645971	-620.46	333.74	6,180.30
52	46		19	5,608.55	0.999831122	604.3979712	162.8303583	5,678.19	1549.370097	0.9261704639	243.7371047	65.66501209	2289.857273	848.14	228.50	7,968.05
52	47		2	3,899.27	0.9996561439	-29.62967153	-525.7947388	3,968.10	1252.511672	0.9036790393	-14.65263384	-260.0172328	1,962.31	-44.28	-785.81	5,930.41
52	48		10	3,899.92	0.9996562555	360.2370003	482.498552	3,958.00	1206.443631	0.8992624597	173.5182111	232.4089018	1906.481918	533.76	714.91	5,864.48
52	49		15	5,078.54	0.9997948176	-157.2570394	-406.5942515	5,164.11	344.2197759	0.6817943867	-100.6232779	133.3869495	858.0946518	-257.88	-273.21	6,022.20
52	50	1														
53	0		11	2,352.81	0.9990870432	470.2765842	395.6774585	2,377.41	250.6437346	0.6142201948	-154.368285	-583.7129508	410.4626066	315.91	-188.04	2,787.87
53	1		4	3,788.59	0.9996363127	-88.00893193	482.7055611	3,861.12	13	0.5868560441	165.2254684	-471.2565771	461.3217383	77.22	11.45	4,322.44
53	2		6	2,958.65	0.9994125126	12.64939504	-432.8292854	3,031.07	259.3982151	0.6215618104	-229.5807593	505.8603678	495.2943052	-216.93	73.03	3,526.37
53	3		9	4,330.51	0.9997197649	474.429534	-68.62800391	4,408.28	158.4583301	0.5178330981	-372.3984081	302.2002588	303.9264696	102.03	233.57	4,712.21
53	4	1														
53	5	1														
53	6		13	3,749.26	0.9996288523	233.4844414	619.2849191	3,795.56	256.2569128	0.6189560276	-205.724544	-539.0514026	462.0677127	27.76	80.23	4,257.63
53	7		11	2,821.05	0.9993559425	-491.0647411	107.5022669	2,880.63	219.6926091	0.5861088155	52.76377593	-445.4522642	509.1133876	-438.30	-337.95	3,389.75
53	8		9	2,725.46	0.9993116922	401.6074239	512.9848571	2,752.46	319.3771989	0.6659489643	-402.9283166	-268.082164	683.3257974	-1.32	244.90	3,435.79
53	9	1														
53	10	1														
53	11		9	5,846.69	0.9998443669	267.8057533	474.3750013	5,925.78	263.2758695	0.6247354795	-217.6174261	-553.9281097	457.1936348	50.19	-79.55	6,382.97
53	12		1	190.96	0.9349512418	105.3725688	47.28153341	251.45	181.1348106	0.5454437035	22.56950851	-287.4962656	538.010445	127.94	-240.21	789.46
53	13	1														
53	14		4	5,736.25	0.9998384255	158.1952091	-639.3291654	5,803.05	346.1907473	0.6829970991	-339.4418089	726.0498705	356.276184	-181.25	86.72	6,159.32
53	15	1														
53	16		12	5,267.12	0.9998089712	179.0482329	-527.3541397	5,342.14	246.0588904	0.6102741066	-327.7533729	442.3103185	468.0713242	-148.71	-85.04	5,810.21
53	17	1														
53	18		1	4,231.16	0.9997067745	587.5352456	-381.8260865	4,277.88	204.82749	0.5712569297	-435.0047032	385.5035941	297.2684965	152.53	3.68	4,575.15
53	19		1	5,568.08	0.9998287034	404.134032	123.4806303	5,656.34	139.75	0.49	-467.9985752	24.62094125	249.1526543	-63.86	148.10	5,905.49
53	20	1														
53	21		1	4,813.60	0.9997721149	-129.5479379	433.1050285	4,896.65	261.8247609	0.6235533101	139.4929606	-514.8887251	524.5634104	9.95	-81.78	5,421.21
53	22	1														
53	23	1														
53	24	1														
53	25	1														
53	26		1	3,756.38	0.9996302199	406.0619269	-384.2218834	3,819.26	124.5362341	0.4697613979	-328.7975709	276.5685654	254.04967	77.26	-107.65	4,073.31
53	27	1														
53	28	1														
53	29	1														
53	30	1														
53	31		8	6,135.42	0.9998584363	-434.958979	397.055074	6,211.68	196.9501634	0.5629836879	522.5941363	-243.3204288	275.6055352	87.64	153.73	6,487.28
53	32	1														







No. bkg events = 296

delta-px (MeV/c) (FWHM/2) =

delta-py (MeV/c) (FWHM/2) =

delta-x (fm) (simple calc) = #DIV/0!

delta-y (fm) (simple calc) = #DIV/0!

delta-x (fm) (Fermi gas) = #DIV/0!

delta-y (fm) (Fermi gas) = #DIV/0!

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 (enter a 1)	Signal Event Slice No.	Muon KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Proton KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Net px (MeV/c)	Net py (MeV/c)	nu-beam pz (MeV/c)
53	33	1														
53	34		3	6,159.23	0.9998595105	565.6866892	-220.7217611	6,233.84	135.1970341	0.4858826913	-379.6783805	-240.1192252	264.7545262	186.01	-460.84	6,498.60
53	35		1	3,072.67	0.9994539289	-438.7449156	245.1108366	3,135.92	211.6511473	0.5781934942	621.868133	-134.6604003	192.3547821	183.12	110.45	3,328.27
53	36	1														
53	37		11	5,914.51	0.9998478543	549.9317531	-439.0378135	5,977.31	265.4054227	0.6264586077	-415.8118912	439.5247263	449.7322508	134.12	0.49	6,427.04
53	38	1														
53	39	1														
53	40		7	6,807.42	0.9998846246	307.5135884	-368.2543172	6,894.95	155.6706026	0.5142134274	-371.8838528	284.9383599	311.1011382	-64.37	-83.32	7,206.06
53	41	1														
53	42		3	5,594.06	0.9998302622	-453.8465831	292.8749395	5,672.44	153.94	0.5119424332	500.1162277	-154.6002964	196.15	46.27	138.27	5,868.59
53	43	1														
53	44		6	3425.625559	0.9995576751	-428.7319748	-103.8990737	3501.3834	193.5593535	0.5593307367	411.4005077	270.1754973	397.9163144	-17.33	166.28	3,899.30
53	45		12													
53	46		17													
53	47		13													
53	48	1														
53	49	1														
53	50															
54	0		6	5,846.04	0.9998443328	411.2296988	-445.2923491	5,919.16	270.1716473	0.630265409	-283.5006406	268.4319817	653.76	127.73	-176.86	6,572.92
54	1		6	5620.404342	0.9998318206	-186.0196383	-504.789462	5699.106437	283.1148127	0.6402692804	120.6726856	379.9827858	672.5537683	-65.35	-124.81	6,371.66
54	2	1														
54	3	1														
54	4	1														
54	5	1														
54	6		6	4,016.66	0.9996754556	-252.2146439	509.0762201	4,080.97	365.25	0.6942472119	247.3716986	-643.02529	586.48	-4.84	-133.95	4,667.45
54	7	1														
54	8	1														
54	9		9	2,643.30	0.9992699071	-354.8874891	-142.1549262	2,719.56	195.32	0.5612325741	528.7938036	319.1892622	151.86	173.91	177.03	2,871.42
54	10		10	5,768.51	0.9998401958	-422.8580586	24.38684966	5,857.28	155.5439337	0.5140476909	508.7658485	79.74052003	225.3732367	85.91	104.13	6,082.65
54	11	1														
54	12		13	3,306.44	0.9995262208	450.1434493	350.0527004	3,361.80	433.51	0.7295577718	-458.1944916	-252.1137802	853.04	-8.05	97.94	4,214.85
54	13	1														
54	14	1														
54	15		10	2,983.05	0.9994217653	272.6428971	-372.5698539	3,051.54	275.1719446	0.6341869202	-380.7903352	463.6217865	481.6593473	-108.15	91.05	3,533.20
54	16	1														
54	17		10	2,584.27	0.9992374882	-210.3991408	112.6660074	2,676.60	124.75	0.4700950706	405.1630186	-96.26338401	275.99	194.76	16.40	2,952.59
54	18	1														
54	19		14	4,000.64	0.9996729165	-186.3189855	323.771481	4,087.26	221.8523279	0.5881888041	299.6933825	-545.4852521	279.3620211	113.37	-221.71	4,366.62
54	20		16	266.70	0.9592721202	-7.392827033	55.37028949	352.16	241.1281713	0.6059496463	-380.0794851	-447.9084899	406.71	-387.47	-392.54	758.88
54	21		3	1,065.82	0.995970574	257.8367193	368.7328157	1,075.80	207.91	0.5744144758	-506.2715568	-258.799343	331.62	-248.43	109.93	1,407.43
54	22	1														
54	23	1														
54	24		7	3,428.77	0.9995584626	176.3583862	-584.6173699	3,479.03	192.07	0.5577119916	-516.9174102	-113.1724948	342.36	-340.56	-697.79	3,821.39
54	25	1														
54	26		8	6,836.64	0.9998855939	469.1462191	277.5916219	6,919.41	257.4562695	0.6199546399	-514.2109269	-171.3137661	505.480374	-45.06	106.28	7,424.89
54	27	1														
54	28	1														
54	29		12	3,222.68	0.9995020642	593.0467212	243.5049889	3,263.65	135.61	0.4864934914	-449.7009925	-58.35185568	259.17	143.35	185.15	3,522.82
54	30	1														
54	31	1														
54	32		9	4,420.04	0.99730746	-349.8456475	-209.3097021	4,505.41	239.6623463	0.6046475427	495.4744204	14.85053892	511.20	145.63	-194.46	5,016.62
54	33		19	7,756.17	0.999910794	705.6041661	419.4908423	7,817.48	286.4279337	0.6427547244	-285.683635	-480.3133663	554.1332833	419.92	-60.82	8,371.62
54	34		1	5,385.66	0.9998171313	-329.1049542	311.20704	5,470.94	377.4456728	0.7010965902	607.3604728	70.61684556	690.4200427	278.26	381.82	6,161.36
54	35		1	2,445.80	0.9991524194	-254.4767637	-63.56263813	2,535.10	125.22	0.4708261423	364.3424558	210.4454504	271.22	109.87	146.88	2,806.32
54	36		8	4,583.60	0.9997492061	510.0586319	503.8477612	4,632.27	129.1673181	0.4768909857	-211.3473693	-262.6312586	381.2600129	298.71	241.22	5,013.53
54	37	1														
54	38		7	5,281.08	0.9998099605	-405.160812	-257.3602118	5,363.62	110.8302942	0.4474086814	205.9859472	55.50335575	417.9595114	-199.17	-201.86	5,781.58
54	39		3	1,635.56	0.9981787725	423.5441827	355.9442616	1,646.95	238.18	0.6033254722	-450.8596984	-349.3878257	422.16	-27.32	6.56	2,069.11
54	40		6	6,079.54	0.9998558662	-799.5579428	298.9132629	6,124.44	238.025751	0.6031846448	288.649863	126.4189036	635.5250463	-510.91	425.33	6,759.97
54	41	1														
54	42		11	5890.947413	0.9998466562	585.3555372	221.9385299	5962.253145	147.1592075	0.5028231801	-472.6549417	-128.1041141	240.6515067	112.70	93.83	6,202.90
54	43		8	4,006.37	0.9996738284	-164.7473206	-439.1085131	4,083.18	141.35	0.494745624	-269.1144403	115.7869453	446.47	-433.86	-323.32	4,529.65
54	44	1														
54	45	1														
54	46	1														
54	47		2	5,592.73	0.999830183	461.0443347	551.9011558	5,651.19	277.43	0.6359305065	-354.1202623	-436.5130394	530.54	106.92	115.39	6,181.73
54	48		11	4,714.36	0.9997626321	430.6641075	-174.1167552	4,795.77	314.278588	0.6625308729	-113.6270722	236.0278069	787.2340344	317.04	61.91	5,583.00
54	49	1														
54	50	1														
55	0		1.00	5,747.71	0.9998390579	445.6124041	617.4391869	5,802.01	419.9307962	0.7230871134	-579.4867108	-731.3694023	305.6566649	-133.87	-113.93	6,107.67
55	1	1														
55	2		4	3,359.61	0.9995406534	-567.0538784	-127.7881111	3,413.88	382.08	0.7036345572	385.7689971	-424.9462022	730.33	-181.28	-552.73	4,144.21
55	3	1														
55	4	1														
55	5		20	2,469.58	0.9991680148	-394.9551206	-135.6993232	2,538.32	236.6992125	0.6019917842	653.8476757	74.17258135	258.951511	258.89	-61.53	2,797.27
55	6	1														
55	7		11	4,314.33	0.9997177096	528.872486	249.5067981	4,379.22	300.6745157	0.6531122864	-184.3556866	-331.9096461	714.366519	344.52	-82.40	5,093.58
55	8	1														
55	9		17	2,503.41	0.999189463	283.8941951	-542.853577	2,533.28	611.3957325	0.7959234283	-252.6574912	162.4330427	1196.061384	31.24	-380.42	3,729.34
55	10		3	3,013.98	0.9994331798	-446.1669931	45.34570304	3,084.79	147.37	0.5031092971	489.6950347	77.44644846	228.87	43.53	122.79	3,313.66
55	11		1	4,101.31	0.9996883882	515.0562461	-117.8627376	4,171.67	198.4152467	0.5645446769	-434.6869824	-75.58288306	465.7575207	80.37	-193.45	4,637.43
55	12	1														
55	13	1														
55	14	1														
55	15		8	5,115.48	0.999797711	508.8883965	-290.3294926	5,186.43	269.4185313	0.6296684147	-356.6139474	68.07799413	667.9875665	152.27	-222.25	5,854.42
55	16	1														
55	17		22	3,246.80	0.9995092056	-41.64660549	657.5412772	3,284.73	213.42	0.5799575407	393.8183797	-155.6730018	516.33	352.17	501.87	3,801.06
55	18		7	5,452.09	0.9998214774	-377.9520373	-356.2320115	5,531.77	293.4217817	0.6479050155	348.6636507	517.3283249	497.3536643	-29.29	161.10	6,029.12
55	19	1														
55	20		1	4,828.36	0.9997734769	385.4991665	367.6089985	4,903.39	311.9916869	0.6609783281	-432.5960579	-614.4993822	343.3458568	-47.10	-246.89	5,246.74
55	21	1														
55	22		12	5,856.00	0.9998448525	616.8315395	126.2810536	5,926.72	208.8137819	0.5753343589	-532.0112054	-200.5696578	334.7741628	84.82	-74.29	6,261.49
55	23		3	2898.140951	0.9993885936	-393.2610536	-42.91089821	2975.11932	450.8293156	0.7374616872	231.9979121	219.0499478	973.2404415	-161.26	176.14	3,948.36
55	24		1	6,605.27	0.9998775678	526.5341755	287.3913625	6,682.58	316.6388621	0.664120561	-716.6012054	-234.5722584	354.5888381	-190.07	52.82	7,037.16
55	25		8	794.57	0.9931645756	360.525448	-118.5638973	808.80	274.6217636	0.633758994	-626.6628216	120.8053931	428.1440256	-266.14	2.24	1,236.95
55	26		2	5,416.92	0.9998191962	503.7420946	-189.5550432	5,494.62	162.7725643	0.5233321267	-458.3393877	175.6218521	301.5596277	45.40	-13.93	5,796.18
55	27	1														
55	28		1	2563.407752	0.999225516	418.917469	380.846057	2605.540129	236.7701574	0.6020557419	-236.6976762	-556.7981201	366.3208788	182.22	-175.95	2,971.86
55	29		16	4,323.98	0.999718938	763.9769078	41.95764296	4,361.13	399.4297751	0.7128217598	-672.6457434	-84.71808684	670.2573782	91.33	-42.76	5,031.38
55	30		9	4,134.31	0.999693222	-464.8394421	263.9969258	4,204.16	167.9053701	0.5297179853	203.4912301	-244.7004893	491.8289107	-261.35	19.30	4,695.99
55	31		12	4216.527243	0.9997047851	359.6448557	-578.841783	4266.165782	302.4687087	0.6543800878	-352.2759375	453.0256878	574.097559	7.37	-125.82	4,840.26
55	32		1	5682.69398	0.9998354215	451.3660791	-600.2252991	5737.802268	171.9219295	0.5346011695	-148.0796677	358.9693241	448.6603682	303.29	-241.26	6,186.46
55	33		9	3584.268298	0.9995949057	-543.0546214	435.3332186	3621.498573	127.5814197	0.474471984	322.9904261	87.63441879	378.9685413	-220.06	522.97	4,000.47
55	34		1	4,702.41	0.9997614509	-66.02690991	-677.3481982	4,757.84	219.5821514	0.5860019235	-209.9348614	547.5568182	340.9711456	-275.96	-129.79	5,098.81
55	35	1														
55	36	1														
55	37	1														
55	38	1														
55	39	1														
55	40		17	5,244.17	0.9998073285	590.3324926	-378.3685077	5,301.98	220.2396663	0.5866374759	-290.9391807	388.6351503	475.3864088	299.39	10.27	5,777.36
55	41		10	5,688.60	0.9998357569	-13.77650107	451.2378696	5,775.03	216.6509489	0.5831469095	184.1322725	-272.9699188	587.3308637	170.36	178.27	6,362.36
55	42	1														
55	43		16	2,953.50	0.999410533	24.72654414	660.8240393	2,984.31	358.3927045	0.6902759689	55.52723915	-756.7339662	474.4053904	80.25	-95.91	3,458.71
55	44	1														
55	45	1														
55	46		4	3,713.62	0.9996218904	544.9542678	50.9481471	3,777.73	167.982799	0.5298130514	-319.515625	130.6354178	473.4956226	225.44	181.58	4,251.23
55	47		3	2,690.81	0.9992945161	-375.5118488	489.5140156	2,724.86	379.6625392	0.7023146671	379.136058	-254.0381202	805.0534456	3.62	235.48	3,529.92
55	48		22	3,246.80	0.9995092056	-41.64660549	657.5412772	3,284.73	213.4193777	0.5799575407	393.8183797	-155.6730018	516.3289491	352.17	501.87	3,801.06
55	49		9	2583.914993	0.9992372888	-627.4000681	-137.6356224	2608.958495	179.3571863	0.5433892188	509.964502	179.7026184	276.1996695	-117.44	42.07	2,885.16
55	50	1														
56	0	1														
56	1		4	3,873.62	0.999651695	550.3122574	300.5890158	3,927.49	171.116472	0.5336297454	226.0688343	98.87769498	537.9697315	776.38	399.47	4,465.46
56	2		7	6251.93054	0.9998635784	336.5784631	-384.7260017	6335.474862	185.5790489	0.5505044525	-178.1192695	494.1647527	326.589348	158.46	109.44	6,662.06
56	3	1														
56	4		11	3608.409297	0.9996001567	161.5646231	-582.0193235	3662.449179	266.6975835	0.6274974149	-454.6519961	151.0839198	584.7371027	-293.09	-430.94	4,247.19
56	5	1														
56	6		7	3,663.44	0.9996117512	512.9858006	102.1505895	3,730.48	565.1603002	0.7814094799	-98.32294804	-131.5145166	1163.04919	414.66	-29.36	4,893.53
56	7		12	3,535.06	0.9995838776	0.3180797099	608.8332005	3,587.25	253.5064632	0.6166483829	-12.09550274	-606.7410284	414.20	-11.78	2.09	4,001.45
56	8		8	2909.490087	0.9993931901	362.5184859	-265.9386763	2978.923036	216.1283112	0.5826340927	-357.0096871	21.82980319	569.416984	5.51	-244.11	3,548.34
56	9		1	3,473.61	0.9995694598	-396.8877342	507.9506119	3,518.51	284.1122272	0.6410206655	425.6770209	-391.0519784	528.764333	28.79	116.90	4,047.27

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 (enter a 1)	Signal Event Slice No.	Muon KE (MeV)	Muon v/c	Muon px (MeV/c)	Muon py (MeV/c)	Muon pz (MeV/c)	Proton KE (MeV)	Proton v/c	Proton px (MeV/c)	Proton py (MeV/c)	Proton pz (MeV/c)	Net px (MeV/c)	Net py (MeV/c)	nu-beam pz (MeV/c)
56	10	1														
56	11		8	3,937.59	0.9996626329	386.6028291	348.7413343	4,007.55	160.9472557	0.5210205236	0.3861180855	-466.3659775	332.1802174	386.99	-117.62	4,339.73
56	12	1														
56	13		1	5832.380136	0.9998436158	249.7911105	504.2361421	5909.721498	271.5630561	0.6313639669	-220.9179801	-543.4416863	488.9429071	28.87	-39.21	6,398.66
56	14															
56	15															
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58	41															

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 (enter a 1)	Signal Event Slice No.	Muon KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Proton KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Net px (MeV/c)	Net py (MeV/c)	nu-beam pz (MeV/c)
58	42															
58	43															
58	44															
58	45															
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58	50															
59	0															
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59	47															
59	48															
59	49															
59	50															
60	0	1														
60	1	1														
60	2		2	3211.969599	0.9994988422	67.45702735	581.6381733	3263.189989	305.6865547	0.6566340612	7.857433162	-705.013614	412.0756133	75.31	-123.38	3,675.27
60	3	1														
60	4		1	2136.018927	0.9989017629	-88.22445226	-682.0853261	2130.285634	167.012994	0.5286196591	-56.3508349	357.1051576	458.8139131	-144.58	-324.98	2,589.10
60	5		1	3614.897212	0.9996015505	-435.7930979	8.504494503	3692.779755	141.9064126	0.4955248066	456.9896219	-122.0419763	250.2400876	21.20	-113.54	3,943.02
60	6		4	7746.808743	0.9999105812	494.3060635	-251.5646653	7831.491064	279.2263363	0.6373137543	8.705178778	-379.8881341	676.3173658	503.01	-631.45	8,507.81
60	7	1														
60	8		4	2460.444371	0.9991620745	-188.2926434	508.7604354	2505.232229	188.1099251	0.5533392538	288.5601567	-399.5977582	381.2272694	100.27	109.16	2,886.46
60	9		8	4306.848236	0.9997167506	-619.4778086	-78.20546092	4366.178078	294.1608696	0.648441799	706.6663858	70.9280817	366.0167141	87.19	-7.28	4,732.19
60	10	1														
60	11		1	4788.851129	0.9997698044	652.7298511	-303.5422837	4839.47928	197.6628988	0.5637443741	-546.8991485	227.6156963	242.8551747	105.83	-75.93	5,082.33
60	12		14	2857.79751	0.9993718244	-379.4365174	228.4065027	2927.62745	293.8172546	0.6481924143	346.8661968	59.09087477	716.7439282	-32.57	287.50	3,644.37
60	13	1														
60	14		17	5810.94888	0.9998424806	483.0806606	-175.7367431	5892.637425	285.6676589	0.6421870128	-656.0946761	58.86798633	428.4773921	-173.01	-116.87	6,321.11
60	15	1														
60	16		1	638.1315638	0.989967685	-96.37845756	77.61018055	725.1947144	278.6119382	0.6368429097	27.19933185	-294.8159893	715.9918554	-69.18	-217.21	1,441.19
60	17	1														
60	18		10	5391.496076	0.9998175195	605.8120364	-153.2877018	5459.847871	472.9962368	0.7470405009	-246.55745	-96.02163394	1020.321346	359.25	-249.31	6,480.17
60	19	1														
60	20		15	3106.22706	0.9994652846	-248.8258125	387.0298874	3176.357633	138.4256344	0.4905687159	185.9833181	-411.8020795	273.2716581	-62.84	-24.77	3,449.63
60	21		14	7252.050737	0.9998981495	446.2101026	-61.50278631	7342.498519	242.9484997	0.6075560539	-569.6375964	308.9126665	308.0281352	-123.43	247.41	7,650.53
60	22		14	5277.431006	0.9998097025	428.1576575	-239.8881775	5358.980614	431.6898093	0.7287060745	-167.8898844	525.0419366	832.0757929	260.27	285.15	6,191.06
60	23		8	2419.603464	0.9991347329	-163.8789006	-560.8407783	2453.81315	426.4993337	0.7262490999	432.1142185	285.61991	844.8153649	268.24	-275.22	3,298.63
60	24	1														
60	25			3709.908824	0.9996211541	250.274558	555.1928881	3764.522259	204.8738241	0.5713047364	-324.7327257	-479.8335138	301.0399207	-74.46	75.36	4,065.56
60	26		8	839.7802994	0.9938052193	315.5415296	115.088608	876.8066923	517.5572442	0.7648660614	-321.5828406	-7.198059815	1065.52126	-6.04	107.89	1,942.33
60	27		4	4861.76824	0.9997765145	-92.37251902	621.9703865	4925.685933	188.8983356	0.5542154969	28.54301885	-544.674171	304.2551598	-63.83	77.30	5,229.94
60	28		9	6889.07624	0.999887303	386.7965117	-415.7379072	6970.195686	381.9950271	0.7035873947	-566.1268549	538.3444249	502.2235916	-179.33	122.61	7,472.42
60	29		2	1971.375438	0.9987205752	355.8329706	-279.9014158	2023.696631	198.7440202	0.5648935523	-499.9683142	315.8475773	250.2298148	-144.14	35.95	2,273.93
60	30		11	5267.328961	0.9998089861	-512.0323122	151.4276363	5344.697002	285.1620941	0.6418086332	420.0872562	244.35601	616.5211642	-91.95	395.78	5,961.22
60	31		6	6630.571074	0.999878486	63.92759161	412.3294852	6721.814514	152.4949031	0.5100244363	-163.3785573	-463.9264324	259.6436904	-99.45	-51.60	6,981.46
60	32	1														
60	33		5	5278.267769	0.9998097617	-387.7362697	-454.884188	5348.952031	232.2780105	0.5979693769	479.2271861	330.2954861	388.5264697	91.49	-124.59	5,737.48
60	34	1														
60	35	1														
60	36	1														
60	37	1														
60	38	1														
60	39		13	3934.225661	0.9996620708	-230.4670778	308.2286805	4019.477447	349.7899156	0.6851737366	482.0763047	-49.96774765	737.3361021	251.61	258.26	4,756.81
60	40		4	2954.69437	0.999410993	-309.8420723	-18.26864811	3042.099404	298.607847	0.6516420263	681.5459951	-9.152913543	429.8444464	371.70	-27.42	3,471.94
60	41		12	2685.187317	0.9992916699	588.0195256	314.2162492	2707.327363	279.6630588	0.6376477928	-534.0277409	-301.4317997	476.2484298	53.99	12.78	3,183.58
60	42		4	4418.772985	0.9997305951	-42.99236822	529.5366085	4491.240325	171.2017829	0.5337328189	308.702385	-308.1074395	400.321419	265.71	221.43	4,891.56
60	43	1														
60	44		3	695.2891483	0.9913555787	-32.58202509	-100.7478105	786.2734964	268.5419112	0.6289713946	325.0403731	241.4731356	641.8246365	292.46	140.73	1,428.10
60	45	1														
60	46	1														
60	47	1														
60	48		1	5493.923525	0.9998241357	420.1551753	-44.34081393	5581.973053	126.157895	0.4722808188	-109.0599596	-6.642657994	490.5607258	311.10	-50.98	6,072.53
60	49		1	373.7493164	0.9756526515	264.5577773	-77.81288528	377.0016515	365.914674	0.6946247924	-169.7924918	30.95138192	889.1355345	94.77	-46.86	1,266.14
60	50															
61	0		12	4321.774214	0.9997186577	144.1314588	626.1261787	4378.641008	444.7281229	0.7347213049	-200.8528099	-752.6129796	652.1693902	-56.72	-126.49	5,030.81
61	1	1														
61	2		12	6136.506879	0.9998584857	194.0889647	751.9104817	6192.119445	415.994702	0.7211635028	-265.804583	-694.3850462	632.9573322	-71.72	57.53	6,825.08
61	3		1	4210.402377	0.9997039464	-308.6324904	-317.2835313	4291.357574	154.6855003	0.5129215629	435.3478577	285.48095	207.5824475	126.72	-31.80	4,498.94
61	4		6	5260.810236	0.9998085217	547.7558244	-200.8519102	5332.965081	270.3424978	0.6304006081	-735.45399	-49.05859926	192.2193395	-187.70	-249.91	5,525.18
61	5	1														
61	6	1														
61	7		8	6067.815725	0.9998553184	224.9325547	-601.6829471	6138.404675	234.4727826	0.599975238	-179.2257388	518.6499752	440.1462982	45.71	-83.03	6,578.55
61	8		10	5880.481705	0.9998461194	720.4611721	57.41490705	5940.757988	268.9339424	0.6292833905	-729.3934245	35.23798865	208.7799264	-8.93	92.65	6,149.54
61	9		12	6442.476573	0.9998714037	499.8801255	-41.95936184	6527.387207	265.0232597	0.6261504026	-407.4339154	-29.70569655	632.8792457	92.45	-71.67	7,160.27
61	10		15	4692.320457	0.9997604461	-482.8306686	667.3017868	4724.917083	245.3404043	0.6096492261	-562.7409493	-25.55166193	450.6886387	-1,045.57	641.75	5,175.61
61	11		3	3706.815768	0.9996205389	-256.2768162	500.8707982	3768.602538	215.292408	0.581811505	125.1245259	-566.0953415	337.8154759	-131.15	-65.22	4,106.42
61	12		18	3159.282055	0.9994825295	-74.38342281	538.1292171	3217.047775	217.8748034	0.5843432918	-419.0662042	-104.9937062	519.19399	-493.45	433.14	3,736.24
61	13		8	3427.542026	0.9995581551	-312.4148547	367.0823815	3497.924478	211.4702252	0.5780122365	361.8066809	-317.8281382	457.7324535	49.39	49.25	3,955.66
61	14	1														
61	15		16	683.2661722	0.9910886764	-1.569112798	-125.9089813	771.0272528	303.2896589	0.6549575352	308.6229728	214.8622404	720.7926855	307.05	88.95	1,491.82
61	16		4	5596.881537	0.99983043	-287.2509313	-351.4205448	5682.817837	246.5028713	0.6106593577	377.2326087	525.5076043	323.6361675	89.98	174.09	6,006.45
61	17		1	5048.598014	0.9997924262	505.1375783	200.8144451	5123.773714	136.3129	0.4875121498	-378.1875146	-250.4331876	261.8427573	126.95	-49.62	5,385.62
61	18	1														

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		Background	Signal Event	Muon						Proton					Net	Net	nu-beam
Tuple	Entry	(enter a 1)	Slice No.	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)		KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	px (MeV/c)	py (MeV/c)	pz (MeV/c)
61	19	1															
61	20		5	4723.17561	0.9997634985	153.1415276	580.0782938	4789.604531		344.8132461	0.6821573367	161.7179304	-521.8849394	683.5563221	314.86	58.19	5,473.16
61	21		3	5859.07335	0.9998450126	112.5814418	484.9823861	5942.328116		82.17668408	0.3932102683	-189.1670989	-30.22379712	352.4468719	-76.59	454.76	6,294.77
61	22	1															
61	23		8	4376.521524	0.9997254906	-387.8061296	36.45785536	4463.326943		154.4189492	0.5125708457	328.1691532	-186.6407455	413.5279913	-59.64	-150.18	4,876.85
61	24		15	3248.892069	0.9995098185	-354.2628187	-112.1496159	3331.58931		202.7873565	0.5691421775	504.2878517	151.095121	380.0208151	150.03	38.95	3,711.61
61	25		1	4963.715504	0.999785415	270.3426304	-522.1224935	5033.4039		183.1917257	0.5477992522	-230.3359035	506.2639837	260.5168633	40.01	-15.86	5,293.92
61	26		2	2769.64065	0.9993326919	-193.1556599	414.7255478	2836.05844		194.4741812	0.5603218728	133.0786529	-550.6564316	285.8694415	-60.08	-135.93	3,121.93
61	27	1															
61	28		2	6086.505402	0.9998561906	-233.6778326	-601.5777493	6156.883385		151.4653117	0.5086509977	169.2158718	429.282295	306.8767917	-64.46	-172.30	6,463.76
61	29		9	5302.537905	0.9998114657	-312.9600032	-548.5107331	5369.509587		177.9344352	0.5417321509	202.0449825	449.3899593	350.2743972	-110.92	-99.12	5,719.78
61	30		3	2764.403266	0.9993302528	-131.5807901	659.2485544	2787.56667		270.0567568	0.6301744441	77.76203221	-324.2093348	684.3964503	-53.82	335.04	3,471.96
61	31	1															
61	32	1															
61	33		2	3314.238439	0.99952838	-325.3082313	-50.60916478	3401.731878		202.9648415	0.5693269174	499.4385438	155.495951	385.1479194	174.13	104.89	3,786.88
61	34		1	2359.046778	0.9990916609	445.3547117	-114.7056494	2418.471277		237.8614033	0.6030372057	-240.777638	172.8939611	644.1582468	204.58	58.19	3,062.63
61	35		3	2903.807515	0.9993908951	591.5487764	87.96229451	2946.901821		168.2613113	0.5301546989	-422.0184586	-103.9703331	393.7774491	169.53	-16.01	3,340.68
61	36	1															
61	37		11	2014.299349	0.9987719084	-400.0596041	-185.1904858	2070.280543		194.2689298	0.5600998623	393.7508532	136.9647589	477.901507	-6.31	-48.23	2,548.18
61	38		5	854.8533319	0.9939987189	94.53335658	327.5881927	891.0908143		476.1533448	0.7483585595	-316.4737507	-465.8462445	896.0007389	-221.94	-138.26	1,787.09
61	39	1															
61	40	1															
61	41	1															
61	42		2	2850.63457	0.999368775	-501.9233074	-74.54501899	2909.856826		372.4027471	0.6982946212	495.6902421	-71.70035667	765.8078104	-6.23	-146.25	3,675.66
61	43	1															
61	44		4	3376.825304	0.9995451864	514.9923508	272.3370964	3431.136522		275.8903976	0.634744418	-347.0385946	-557.5269413	403.0059812	167.95	-285.19	3,834.14
61	45		4	4242.184559	0.9997082601	490.7535982	-297.7749872	4307.839313		206.5332491	0.5730104563	-444.2886545	378.4658815	299.1379723	46.46	80.69	4,606.98
61	46		3	2913.123955	0.9993945509	-201.4976632	-195.4215093	3003.207674		147.5520977	0.5033605994	-324.6375996	88.13195278	430.6071812	-526.14	-107.29	3,433.81
61	47		17	3180.113983	0.9994890732	-359.9703566	171.0144437	3259.160058		250.4194395	0.614028797	500.041043	-325.6405485	420.01661	140.07	-154.63	3,679.18
61	48		9	6738.84551	0.9998823007	432.8947874	-40.27857051	6829.214897		233.3487078	0.5989501638	-522.165654	43.67498671	466.5290138	-89.27	3.40	7,295.74
61	49		2	4447.509747	0.9997339859	-317.9072184	280.1112334	4531.53315		336.64006	0.6770967352	607.0753606	-50.1205621	611.4006201	289.17	229.99	5,142.93
61	50		3	4631.03975	0.999754206	658.0451896	331.6268311	4677.183734		208.3014729	0.5748143317	-326.9837347	-495.2398283	286.3253683	331.06	-163.61	4,963.51
62	0		23	4105.311677	0.9996889805	-437.4991956	-209.3989346	4180.962325		286.1283989	0.6425312423	11.50929478	34.97454328	785.6784676	-425.99	-174.42	4,966.64
62	1	1															
62	2	1															
62	3	1															
62	4		10	3854.067667	0.9996482459	-64.58380032	657.4134399	3902.156877		360.2121021	0.6913373065	174.9667328	-355.511345	805.3005576	110.38	301.90	4,707.46
62	5	1															
62	6		10	3902.85831	0.9996567596	350.1374435	497.0435932	3960.08266		261.7357515	0.6234805843	-277.9053134	-604.838982	341.2628255	72.23	-107.80	4,301.35
62	7		4	5355.220537	0.9998150866	622.3825418	115.7977523	5422.380858		139.8542292	0.4926146621	-462.1895626	-60.6793882	254.2136099	160.19	55.12	5,676.59
62	8	1															
62	9	1															
62	10		7	3448.38514	0.9995633245	648.249897	30.44440988	3492.043265		178.0323663	0.5418465764	-542.4964044	59.59114067	260.4434484	105.75	90.04	3,752.49
62	11	1															
62	12		7	2218.854641	0.9989787019	383.5430626	-383.8187751	2257.178163		190.4633086	0.5559453071	-395.4098405	272.6834878	403.5842072	-11.87	-111.14	2,660.76
62	13	1															
62	14		14	4034.712944	0.99967828	242.6752194	520.8170828	4098.299228		373.6465834	0.6989897762	-168.3781788	-624.9566355	649.346404	74.30	-104.14	4,747.65
62	15	1															
62	16		7	6767.335644	0.9998832746	1387.908114	36.58344373	6729.81017		331.37994	0.673767444	-499.3703094	-67.2397727	691.0785332	888.54	-30.66	7,420.89
62	17		4	3779.118419	0.9996345373	575.7610593	-945.1966382	3721.619729		526.829085	0.7680851298	-543.5739688	345.2237927	922.6202478	32.19	-599.97	4,644.24
62	18		1	3354.686517	0.9995393457	439.8426358	583.0942879	3380.080666		204.0726356	0.5704767	-79.02805457	-212.2619488	610.8889724	360.81	370.83	3,990.97
62	19		4	5317.210884	0.9998124848	540.7834176	291.7200226	5386.260167		318.4039701	0.6653010781	-647.3306074	-209.6146696	485.5221014	-106.55	82.11	5,871.78
62	20	1															
62	21	1															
62	22			6407.792772	0.9998700302	531.8320001	-193.471673	6487.308235		220.6256495	0.5870097426	-130.5230166	73.60434482	663.4120426			
62	23	1															
62	24	1															
62	25	1															
62	26		12	3624.127507	0.999603521	132.0755747	-552.6957574	3684.080673		261.5326214	0.6233145231	414.904144	-486.2333072	-387.8997707	546.98	-1,038.93	3,296.18
62	27	1															
62	28	1	10	9302.033116	0.9999377045	250.4870548	-261.9364369	9399.462356		389.3861634	0.7075613356	-579.6067454	-22.07824385	738.700615	-329.12	-284.01	10,138.16
62	29	1															
62	30		2	5894.580258	0.9998468418	-162.6722757	425.0557907	5981.371379		287.7241701	0.6437190641	324.3959171	-634.881338	338.0069776	161.72	-209.83	6,319.38
62	31		4	5693.335346	0.999836025	460.4960964	386.4481924	5766.131193		291.3220101	0.6463722637	-76.65456605	-410.110601	676.2558516	383.84	-23.66	6,442.39
62	32		8	6059.04931	0.9998549065	358.3183996	-624.7057583	6120.933714		261.3215524	0.6231418353	-384.5749849	558.7630733	313.7102085	-26.26	-65.94	6,434.64
62	33		5	4779.79849	0.9997689503	458.2495	-80.80059655	4861.451424		199.1834813	0.5653590748	-248.6859685	-210.063358	554.4104479	209.56	-290.86	5,415.86
62	34	1															
62	35																
62	36																
62	37																
62	38																
62	39																
62	40																
62	41																
62	42																
62	43																
62	44		11	5503.793744	0.9998247542	-145.980901	-330.7558904	5596.144421		722.5346587	0.8251742257	131.5019269	826.8358447	1084.703223	-14.48	496.08	6,680.85
62	45		12	2880.975678	0.9993815417	-309.6115626	-189.0581443	2961.99653		349.6658469	0.6850991229	238.9694614	509.8265044	679.1243371	-70.64	320.77	3,641.12
62	46	1															
62	47	1	3	1630.83996	0.9981688368	456.9576202	-230.4612248	1655.35275		875.7212135	0.85588343	-111.8263836	-77.61219441	1546.354373	345.13	-308.07	3,201.71
62	48		6	4200.297309	0.9997025548	-466.0523563	-570.1251946	4240.555669		1042.530368	0.8807344002	48.58939389	81.90190509	1741.71975	-417.46	-488.22	5,982.28
62	49		13	2834.449014	0.9993618021	-471.1667087	-495.9890445	2856.804562		483.6762847	0.7514548502	189.8956697	298.3589009	1008.087823	-281.27	-197.63	3,864.89
62	50	1															
63	0			4203.118388	0.9997029443	-164.5989895	598.9198791	4261.814308		333.220307	0.6749388412	110.9333297	-653.3947026	544.9093758	-53.67	-54.47	4,806.72
63	1			5615.115458	0.9998315094	-624.4161063	-254.1022241	5679.280979		238.2242942	0.6033626308	550.5221113	347.0305126	283.1162634	-73.89	92.93	5,962.40
63	2	1															
63	3			5513.869325	0.9998253821	482.8163141	-143.4030561	5595.265093		174.9274404	0.5381920374	-426.9607157	137.5965476	396.9070734	55.86	-5.81	5,992.17
63	4	1															
63	5			3301.949581	0.9995249707	576.0067079	183.4510033	3351.24491		464.5940124	0.743477566	-193.1674559	-417.3375465	935.9175551	382.84	-233.89	4,287.16
63	6			2608.57025	0.9992510909	285.1600757	513.9740374	2647.064964		262.7209171	0.6242841488	-331.4745612	-559.2735001	373.1279781	-46.31	-45.30	3,020.19
63	7			244.6633756	0.9538483259	-65.49180937	-36.5258035	324.9864071		214.8542463	0.5813791421	199.1879613	123.2588055	627.9811591	133.70	86.73	952.97
63	8			3456.733199	0.9995653695	444.8010388	82.16013416	3531.334043		284.2894636	0.6411538991	-466.0974735	243.2059126	581.1639718	-21.30	325.37	4,112.50
63	9			4210.632985	0.9997039781	105.4144613	438.080268	4290.761766		284.2894636	0.6411538991	-466.0974735	243.2059126	581.1639718	-360.68	681.29	4,871.93
63	10			2533.085555	0.9992076028	378.243675	-317.1066768	2589.371637		171.7509423	0.5343952743	-407.8418976	219.690879	370.2756516	-29.60	-97.42	2,959.65
63	11			739.7631351	0.9922452842	-102.6337863	-49.70763352	830.4186965		171.7509423	0.5343952743	-407.8418976	219.690879	370.2756516	-510.48	169.98	1,200.69
63	12	1															
63	13	1															
63	14			3696.804693	0.9996185375	707.041143	-217.3290855	3727.674183		218.0837828	0.5845469563	-449.9077576	-306.3870277	400.4943341	257.13	-523.72	4,128.17
63	15			5614.883435	0.9998314958	538.5750541	-258.9580959	5687.611021		351.600837	0.6862594376	-392.5166457	654.3303692	448.3400156	146.06	395.37	6,135.95
63	16	1															
63	17	1															
63	18	1															
63	19			6975.413896	0.9998900348	283.0532817	416.556321	7061.699343		191.8697404	0.557489196	37.93636566	-255.4451132	574.5174119	320.99	161.11	7,636.22
63	20			4782.507624	0.9997692064	454.7545065	-158.7776079	4862.58098		418.1857401	0.7222369846	-764.9270969	337.1575122	510.4969245	-310.17	178.38	5,373.08
63	21			4490.973526	0.9997389941	24.98194162	540.3380668	4562.823504		226.4458383	0.5925503882	-209.1781993	-535.8450931	381.0572496	-184.20	4.49	4,943.88
63	22	1															
63	23			3535.51558	0.999583981	-81.72976638	-473.6546858	3607.117987		216.8156177	0.5833082464	-59.75687515	616.7732098	264.1496438	-141.49	143.12	3,871.27
63	24			2503.330024	0.9991894131	354.4637133	559.0949899	2520.739729		608.6013849	0.7950902629	-328.2698532	-19.09170785	1184.907698	26.19	540.00	3,705.65
63	25	1															
63	26	1															
63	27			2947.22394	0.9994081054	-313.2151496	57.85300349	3033.742784		393.5145624	0.7097427592	-579.4906821	228.3149702	710.738949	-892.71	286.17	3,744.48
63	28	1															
63	29			2947.22394	0.9994081054	-313.2151496	57.85300349	3033.742784		260.3474413	0.6223430536	673.5479901	-56.17471263	315.2302282	360.33	1.68	3,348.97
63	30	1															
63	31			3676.955511	0.9996145221	-35.11629512	-496.2674323	3747.618974		193.7073135	0.5594913206	385.7622399	-69.73630375	497.2341356	350.65	-566.00	4,244.85
63	32			6125.673252	0.9998579931	260.2639008	628.742272	6192.512416		346.3092193	0.6830691486	-520.16153	-65.55848676	703.3777352	-259.90	563.18	6,895.89
63	33	1															
63	34		1	4799.360619	0.99977079	346.4117906	-471.7687017	4868.178432		207.9171649	0.5744234664	-358.2029736	470.4647789	289.1983238	-11.79	-1.30	5,157.38
63	35		7	5731.939678	0.999838187	74.36326242	428.7288802	5819.750979		1343.361673	0.9115641152	26.49871847	152.7739038	2073.81895	100.86	581.50	7,893.57
63	36		2	6027.454902	0.9998534075	366.7722293	381.1939065	6108.694416		1373.12525	0.9139339719	126.3467439	131.3147644	2104.340479	493.12	512.51	8,213.03
63	37																
63	38																
63	39																
63	40																
63	41																
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63	46																
63	47																
63	48																
63	49																
63	50																

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		Background	Signal Event	Muon					Proton					Net	Net	nu-beam
Tuple	Entry	(enter a 1)	Slice No.	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	px (MeV/c)	py (MeV/c)	pz (MeV/c)
64	0		3	5809.930627	0.9998424264	-400.6192805	239.8827097	5895.535582	275.2815613	0.6342720752	-137.3086499	-484.8501221	581.6139964	-537.93	-244.97	6,477.15
64	1		1	3154.650991	0.9994810577	385.1840368	428.4759112	3206.608993	347.5462751	0.6838198303	176.4450348	-575.5303992	640.6380684	561.63	-147.05	3,847.25
64	2		6	4573.427408	0.9997481143	565.1179411	-349.5784831	4629.805029	337.9154128	0.6778953092	-285.9515011	9.581367927	816.2451084	279.17	-340.00	5,446.05
64	3	1	5													
64	4	1	1													
64	5		9	4639.327639	0.9997550641	554.1290359	149.8289518	4708.302458	188.9279066	0.5542482996	-148.9912946	-180.1972856	579.1830791	405.14	-30.37	5,287.49
64	6		10	3640.948814	0.9996070745	-481.4792286	-136.90835	3710.868008	192.9768297	0.5586972328	372.3246972	-77.88734169	504.5513044	-109.15	-214.80	4,215.42
64	7		11	4266.821122	0.9997115394	378.5880923	357.4445617	4339.435374	222.9242601	0.5892141443	36.71037252	-25.9031851	682.5558667	415.30	331.54	5,021.99
64	8		5	4185.845846	0.9997005476	123.4971989	473.9701793	4261.506046	180.5075468	0.5447207474	-133.5895043	-443.7409456	395.5539783	-10.09	30.23	4,657.06
64	9		1	5203.351091	0.9998043536	-18.24555392	-645.082886	5267.931423	205.0360969	0.5714720891	19.9599643	-142.643998	637.135628	1.71	-787.73	5,905.07
64	10		5	4992.149484	0.9997878027	573.3025167	-34.18067789	5063.601857	162.5438187	0.5230436284	-356.2288122	-200.9390318	405.0644835	217.07	-235.12	5,468.67
64	11		3	3127.3839	0.9994722632	-545.8464278	156.8153432	3180.368108	190.2695655	0.5557318392	565.2666097	60.78102796	264.4381574	19.42	217.60	3,444.81
64	12		1	4278.575346	0.9997130845	348.3078014	-301.9451836	4358.006264	236.0067397	0.601366543	-506.2005178	381.3164058	311.1376854	-157.89	79.37	4,669.14
64	13		2	2531.240829	0.999206493	375.4256071	-134.3812232	2603.793004	236.3129643	0.601643253	491.8071175	34.37248471	506.0743321	867.23	-100.01	3,109.87
64	14		18	5248.1537	0.9998076151	297.2577993	-433.869813	5326.220454	209.315828	0.5758428381	-394.4228254	397.1363728	351.0027711	-97.17	-36.73	5,677.22
64	15		15	4528.74912	0.9997432329	416.8428063	-226.8023496	4608.189306	236.7859407	0.6020699683	-524.6508774	356.259506	313.2070044	-107.81	129.46	4,921.40
64	16	1	2													
64	17	1	5													
64	18		9	2717.057015	0.9993075835	215.7168146	555.1735543	2756.488595	606.6361227	0.7945010613	-241.8890647	-13.42420975	1203.065344	-26.17	541.75	3,959.55
64	19		3	1829.125093	0.9985253131	-111.7961896	-639.1357538	1819.01676	177.9861455	0.5417925775	277.3996672	306.1264289	441.4941802	165.60	-333.01	2,260.51
64	20		10	6777.885788	0.9998836322	663.9698732	221.4287583	6846.400886	450.7146639	0.7374106169	-586.2724752	-53.01495971	837.9489345	77.70	168.41	7,684.35
64	21		1	3888.592656	0.9996543026	-577.7083522	-36.68168823	3950.020862	237.295492	0.6025287673	376.631443	99.17302889	591.42959	-201.08	62.49	4,541.45
64	22		4	5700.193801	0.9998364123	75.71364076	-413.0403822	5789.034044	235.519571	0.6009256191	101.3495675	550.5706255	428.840804	177.06	137.53	6,217.87
64	23		4	1590.878121	0.9980814367	271.0149617	-401.6251853	1621.79706	316.8454046	0.6642590641	-600.1569833	426.6347786	390.6243086	-329.14	25.01	2,012.42
64	24		11	3869.682853	0.9996510048	464.1031956	-311.1045425	3933.815066	237.6480513	0.6028456579	-541.9556607	330.3280918	315.3914299	-77.85	19.22	4,249.21
64	25		14	4332.614119	0.9997200308	413.2029598	-205.0311071	4412.325876	228.7021972	0.5946624009	-177.3855744	176.0155718	647.2270802	235.82	-29.02	5,059.55
64	26		10	5344.409689	0.9998143521	-370.9025183	403.0246868	5420.797302	263.5019221	0.6249190506	463.8089637	-456.5784498	374.4065078	92.91	-53.55	5,795.20
64	27		10	2412.350531	0.9991297376	261.1614835	479.3743244	2455.203379	254.4263888	0.6174229448	-132.630119	-602.3665	401.9957014	128.53	-122.99	2,857.20
64	28		3	6328.555786	0.9998668088	504.8161316	469.3817431	6395.659192	272.6954003	0.6322537893	-439.0629733	-501.0671587	376.9545865	65.75	-31.69	6,772.61
64	29		7	957.7974666	0.9951077209	-189.0491986	151.745856	1029.440164	340.2556585	0.6793520386	296.5623693	20.66582895	815.9149546	107.51	172.41	1,845.36
64	30		1	5707.618316	0.99983683	577.8506399	387.9538964	5769.8429	264.4379937	0.6256775353	-413.105394	-348.6027903	523.2907001	164.75	39.35	6,293.13
64	31	1	4													
64	32	1	2													
64	33		15	6630.928696	0.999878499	403.6824708	378.4230236	6712.342875	308.5473127	0.6586168612	-431.8669672	-453.2663285	531.1089916	-28.18	-74.84	7,243.45
64	34	1	9													
64	35		5	5483.751077	0.9998234948	53.58226592	-733.4242294	5539.163424	169.1549074	0.5312476425	-308.5605464	455.1290003	208.7964829	-254.98	-278.30	5,747.96
64	36	1	5													
64	37		5	7561.113368	0.9999061966	548.4655274	27.21384966	7645.699061	165.8897552	0.527230135	-431.5686229	-17.00776856	390.1126133	116.90	10.21	8,035.81
64	38	1	17													
64	39	1	8													
64	40		14	3292.508859	0.9995223265	-541.3293139	2.278725631	3352.461608	246.2031242	0.6103993353	467.1016492	422.7840535	354.3483211	-74.23	425.06	3,706.81
64	41		16	5120.10312	0.9997980691	-484.7673626	-733.9649596	5149.463434	153.5255858	0.5113917608	190.1995116	487.2451864	194.9368578	-294.57	-246.72	5,344.40
64	42		3	4616.090761	0.9997526468	-578.5319571	72.9962309	4683.764009	229.5557184	0.5954561868	338.5592181	-33.46785326	606.3001849	-239.97	39.53	5,290.06
64	43		9	4209.033508	0.9997037585	-442.8313276	416.2057278	4269.722861	172.0708197	0.5347803143	332.8039149	195.5805245	451.0022587	-110.03	611.79	4,720.73
64	44	1	12													
64	45		2	5092.14461	0.9997958905	145.1315249	633.7146142	5155.252634	242.608088	0.607256534	-53.74322365	-577.3637746	421.6090548	91.39	56.35	5,576.86
64	46		15	6545.527141	0.9998753583	313.8852877	-628.8167874	6612.454289	174.1334446	0.5372485593	-238.2800229	485.5777312	253.8379331	75.61	-143.24	6,866.29
64	47		12	4352.014027	0.999722463	-167.967192	520.2565643	4422.111393	186.9897667	0.5520887337	353.2519127	-350.0542377	372.065978	185.28	170.20	4,794.18
64	48	1	6													
64	49	1	8													
64	50	1	14													
65	0		14	3560.293454	0.9995895878	-461.1586858	97.58170222	3633.340279	416.6121155	0.7214666886	677.5007928	-111.2902044	695.5121492	216.34	-13.71	4,328.85
65	1		1	3527.49723	0.999582142	-266.5377516	-423.6402714	3596.317237	189.2769058	0.5546350975	316.66601	435.0908046	318.3203609	50.13	11.45	3,914.64
65	2	1														
65	3	1														
65	4		10	2795.184923	0.999344399	-463.2955174	-125.6774147	2858.25297	172.6995908	0.5355353986	486.423481	188.9670237	285.4702124	23.13	63.29	3,143.72
65	5		12	3492.81389	0.999574045	-60.45957706	561.1569635	3551.716105	276.4700774	0.6351931552	120.0119216	-502.2380108	573.1035579	59.55	58.92	4,124.82
65	6		12	5121.944262	0.9997982114	286.1188658	-590.6104026	5184.518942	324.1729621	0.6691106366	-341.8574046	452.0102837	626.1443959	-55.74	-138.60	5,810.66
65	7	1														
65	8	1														
65	9	1														
65	10	1														
65	11		16	5364.952932	0.9998157441	348.6958075	-423.7938516	5441.338998	154.214717	0.5123017888	-151.5605544	213.0288445	494.7091042	197.14	-210.77	5,936.05
65	12		16	5472.258233	0.9998227666	133.4605023	-557.0662928	5546.769315	186.0550205	0.5510401601	135.694266	211.4455795	566.1568001	269.15	-345.62	6,112.93
65	13		4	5302.131239	0.9998114373	331.8305023	494.2281564	5373.236481	395.157652	0.7106034787	-543.6808707	-234.705453	739.4523557	-211.85	259.52	6,112.69
65	14		2	7343.554583	0.9999006367	518.8130427	384.8192475	7419.749831	217.1506883	0.5836361868	-353.0262457	-257.0067752	513.6624379	165.79	127.81	7,933.41
65	15		12	3575.220776	0.9995929111	-155.0121422	369.9801058	3656.786283	382.5817121	0.7039060989	173.6472176	-672.3871815	617.927326	18.64	-302.41	4,274.71
65	16	1														
65	17		12	4747.734117	0.9997658865	410.7857723	618.5577073	4794.440661	228.0843063	0.5940860027	-60.28023647	-149.8220476	673.6677642	350.49	468.74	5,468.11
65	18		10	3624.885825	0.9996036822	-352.6210591	-601.3449104	3662.658318	286.7996757	0.6430317444	-424.2060743	481.5376486	456.1529952	71.59	-119.41	4,118.81
65	19		8	4472.601762	0.9997368946	320.9616398	-588.6870493	4527.012709	193.7750153	0.5595647622	-234.3383064	504.5371258	302.6524939	86.62	-84.15	4,829.67
65	20	1														
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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		Background	Signal Event	Muon					Proton					Net	Net	nu-beam
Tuple	Entry	(enter a 1)	Slice No.	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	px (MeV/c)	py (MeV/c)	pz (MeV/c)
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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 (enter a 1)	Signal Event Slice No.	Muon KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Proton KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Net px (MeV/c)	Net py (MeV/c)	nu-beam pz (MeV/c)
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71	0		17	4342.333327	0.9997212533	-473.8875686	-144.0334642	4418.419814	332.4290525	0.6744360792	624.0106124	165.9982509	563.2062798	150.12	21.96	4,981.63
71	1		12	6359.769238	0.999868092	485.3831789	-536.0517098	6423.337765	309.2698297	0.6591145445	-368.1481277	506.909933	532.3037704	117.24	-29.14	6,955.64
71	2	1														
71	3		1	5359.485536	0.9998153752	38.70998747	-445.8709772	5445.115039	146.1452766	0.5014308922	357.9100432	243.8878211	328.5515371	396.62	-201.98	5,773.67
71	4	1														
71	5		9	7002.092074	0.9998908589	-24.84040801	-439.099948	7092.693912	170.8062546	0.5332545693	-102.049828	369.7345294	449.9883561	-126.89	-69.37	7,542.68
71	6	1														
71	7		8	3157.109459	0.9994818398	673.9315528	97.26725221	3188.524496	273.4815152	0.6328693366	-643.5111103	-22.00889853	416.236136	30.42	75.26	3,604.76
71	8	1														
71	9		1	2230.78376	0.9989891123	539.1542289	-262.5602797	2255.046694	170.9579231	0.5334380692	-193.7392136	-357.8177103	429.3894253	345.42	-620.38	2,684.44
71	10		8	299.7464983	0.9657641602	99.20659809	37.92525244	376.1840693	159.4949412	0.5191656415	-231.2762978	215.5332007	474.0336059	-132.07	253.46	850.22
71	11		12	4284.848628	0.9997139041	563.3452215	173.5144183	4348.825231	443.6303623	0.734223287	-599.5443341	-268.9057408	772.8484664	-36.20	-95.39	5,121.67
71	12		12	3225.948074	0.9995030407	261.7475946	1000.402821	3164.628329	507.9030323	0.7610190484	-115.6652031	-517.8163852	963.9913541	146.08	482.59	4,128.62
71	13		9	2731.403517	0.9993145726	-164.5982622	522.0801519	2781.09684	338.508037	0.678265253	87.7487195	-634.2697305	582.7785512	-76.85	-112.19	3,363.88
71	14	1														
71	15	1														
71	16		4	5926.830925	0.9998484754	276.5959556	582.2661755	5996.367241	332.7959054	0.6746693404	-534.1526584	-528.6631942	412.6431847	-257.56	53.60	6,409.01
71	17		25	2825.481751	0.9993578891	284.4370279	-339.9775797	2894.859084	89.98646774	0.4091583954	-234.2951678	118.7803402	328.4953317	50.14	-221.20	3,223.35
71	18	1														
71	19		5	2967.546809	0.9994159118	-139.1730804	-480.3403442	3029.756244	137.537595	0.4892884779	284.1404122	284.8868919	339.176655	144.97	-195.45	3,368.93
71	20		9	2322.78373	0.9990643103	431.6138982	91.02438469	2385.064536	221.6558647	0.5880003775	-225.5334296	-405.7246715	499.4796167	206.08	-314.70	2,884.54
71	21		8	5648.969976	0.9998334865	245.1270184	483.7910257	5727.390722	306.9789351	0.6575322474	-156.870789	-148.6923694	789.5636033	88.26	335.10	6,516.95
71	22		5	3563.977188	0.9995948418	473.990027	150.5229319	3653.793097	136.4997166	0.4877839245	-415.6576219	-181.5438617	262.6332206	58.33	-31.02	3,916.43
71	23		2	5157.402195	0.9998009218	744.5590972	-185.778504	5205.090773	244.6268346	0.6090268574	-641.573133	-1.264376972	327.3294153	102.99	-187.04	5,532.42
71	24	1														
71	25	1														
71	26		9	4429.13407	0.9997318251	605.8369348	-209.8922054	4487.343717	244.2753693	0.6087196642	-634.5447766	186.6745439	283.6134518	-28.71	-23.22	4,770.96
71	27	1														
71	28	1														
71	29		7	2316.626554	0.9990595439	-329.6515525	-499.1077273	2344.242202	283.0020889	0.6401841905	422.6099038	506.2987695	419.6004366	92.96	7.19	2,763.84
71	30		11	3598.715646	0.9995980606	-398.7722097	20.41755338	3680.631526	174.752827	0.5379848653	491.2588487	185.2864422	287.5909106	92.49	205.70	3,968.22
71	31	1														
71	32	1														
71	33	1														
71	34		6	3855.064652	0.999648423	420.9611851	-241.8355792	3928.790435	177.8088839	0.5415853737	-382.1026004	200.8804644	422.8830892	38.86	-40.96	4,351.67
71	35	1														
71	36	1														

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

merged		Background	Signal Event	Muon						Proton						Net	Net	nu-beam
Tuple	Entry	(enter a 1)	Slice No.	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)		KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)		px (MeV/c)	py (MeV/c)	pz (MeV/c)
71	37		13	5698.965185	0.999836343	-426.2736886	-486.2314883	5766.875805		190.035863	0.5554740879	332.6418443	497.0794124	186.7682241		-93.63	10.85	5,953.64
71	38		9	4592.900366	0.9997501984	-410.8648628	368.4416096	4664.191644		215.166035	0.581686888	283.8836691	-461.4328907	395.522002		-126.98	-92.99	5,059.71
71	39	1																
71	40	1																
71	41	1																
71	42		8	5846.294344	0.9998443463	32.80189026	-722.935556	5906.197388		171.5880305	0.5341989408	365.4366762	70.97699229	461.2590376		398.24	-651.96	6,367.46
71	43	1																
71	44		4	3936.314047	0.99966242	-362.1746741	207.7882073	4018.314048		166.8553984	0.5284251781	330.7035472	-22.0998508	480.6331365		-31.47	185.69	4,498.95
71	45		15	5509.111263	0.999825086	501.5117376	-33.35139059	5590.580823		166.3808521	0.5278386276	-188.3443051	-241.5347454	495.9843305		313.17	-274.89	6,086.57
71	46	1																
71	47	1																
71	48	1																
71	49	1																
71	50	1																
72	0																	
72	1																	
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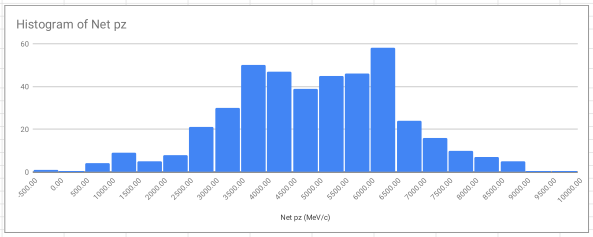
72	48																	
72	49																	
72	50																	
73	0	1																
73	1	1																
73	2	1																
73	3		11	4264.853582	0.9997112796	211.9079551	-456.7637784	4339.476604		215.3932992	0.5819109457	-281.0516992	242.8340911	559.0292024		-69.14	-213.93	4,898.51
73	4	1																
73	5	1																
73	6		4	4085.620946	0.9996860503	154.8341122	538.8948676	4151.613859		172.1282115	0.534849333	-242.0262385	-436.6956452	321.3422776		-87.19	102.20	4,472.96
73	7		17	3815.361634	0.9996412646	474.8572851	-667.0724757	3832.458116		1017.28252	0.8774183138	-3.739305652	65.58597296	1714.342507		471.12	-601.49	5,546.80
73	8	1																
73	9		5	3818.232981	0.9996417896	212.9591348	643.8750243	3862.745834		610.4206603	0.7956333112	287.8847486	-62.65082506	1196.227314		500.84	581.22	5,058.97
73	10		18	1142.200893	0.9964498446	-132.07682	-92.16973899	1232.29279		363.5521203	0.6932699308	367.487827	-210.9252881	796.653715		235.41	-303.10	2,028.95
73	11		5	2814.687889	0.9993531312	-136.4988685	520.217992	2867.802934		133.2788771	0.4830568333	213.8265336	-277.3493849	380.9855177		77.33	242.87	3,248.79
73	12	1																
73	13		4	6754.508789	0.9998828377	483.1872304	14.62671007	6841.648338		189.9112921	0.5553365839	-468.1534558	71.65738311	409.9237052		15.03	86.28	7,251.57
73	14		2	6125.718644	0.9998579952	-434.9079798	-167.2272287	6212.384399		123.4873384	0.4681184152	382.629727	177.3371658	262.7877304		-52.28	10.11	6,475.17
73	15		1	5705.453225	0.9998367083	83.07579486	674.5871445	5769.607637		202.403219	0.5687418368	124.8473101	-510.0495946	380.7073181		207.92	164.54	6,150.31
73	16	1																
73	17		12	3720.472381	0.9996232439	-332.0055135	309.9635025	3796.960483		266.1399677	0.6270497519	451.7973844	-472.8919947	377.3080263		119.79	-162.93	4,174.27
73	18	1																
73	19		9	4248.876452	0.9997091564	-418.6079688	135.1914689	4330.323983		260.7243531	0.6226524779	585.9041511	-149.6809508	437.5020152		167.30	-14.49	4,767.83
73	20		15	3421.959082	0.9995567548	-158.6300946	-372.155313	3502.106835		198.8603185	0.5650168373	170.1322859	487.9179249	381.5736988		11.50	115.76	3,883.68
73	21	1																
73	22	1																
73	23		15	4426.18392	0.9997314757	-407.1195208	257.3542702	4504.289643		291.4262611	0.6464486342	0.4405765822	-519.1843503	601.741097		-406.68	-261.83	5,106.03
73	24		9	5782.272423	0.9998409422	-514.8308211	-140.8767357	5862.086195		122.7625098	0.4669768106	350.1165545	221.2949721	271.6984282		-164.71	80.42	6,133.78
73	25	1																
73	26	1																
73	27	1																
73	28		11	5465.812152	0.9998223562	430.1504839	436.734219	5535.987429		303.7715021	0.6552956888	-392.8245654	-591.8821342	396.8839418		37.33	-155.15	5,932.87
73	29	1																
73	30		20	6429.786682	0.9998709037	242.854121	-433.7575397	6515.004854		196.1291464	0.5621043771	-221.1077545	514.7251403	304.2602694		21.75	80.97	6,819.27
73	31	1																
73	32	1																
73	33	1																
73	34		9	4972.491439	0.9997861562	41.06456762	-515.2512621	5050.022194		127.8204616	0.4748380806	-126.3264727	424.477767	244.9275486		-85.26	-90.77	5,294.95
73	35		6	6449.965722	0.9998716974	443.0068341	262.1250701	6533.879859		263.8837609	0.625228774	-680.8704518	-246.2528215	201.1356521		-237.86	15.87	6,735.02
73	36		7	3251.335044	0.999510532	-345.0798954	555.70999	3290.298801		290.9926353	0.6461307888	212.7618206	-571.3603853	508.7815008		-132.32	-15.65	3,799.08
73	37		2	4794.196634	0.9997703065	17.70427884	429.9882511	4879.128951		171.8313354	0.5344921018	-61.53927862	-496.0931278	319.3526558		-43.83	-66.10	5,198.48
73	38	1																
73	39		4	5022.780238	0.9997903305	-447.4265886	-507.0537336	5081.910185		185.0497913	0.5499073572	415.2464654	372.9042592	264.4042739		-32.18	-134.15	5,346.31
73	40	1																
73	41		6	5680.995227	0.9998353248	-275.5704231	630.9883093	5743.921175		207.3958194	0.57389217	121.4300306	-493.367773	417.0498428		-154.14	137.62	6,160.97
73	42		9	2942.800797	0.9994063857	-407.136161	-351.8979861	2998.07816		306.7676413	0.6573856763	417.3700724	386.3719808	588.3208274		10.23	34.47	3,586.40
73	43	1																
73	44	1																
73	45		12	5070.260508	0.9997941604	74.35162851	705.6587493	5125.311102		319.7586861	0.6662023416	176.1029635	-457.8933169	679.2896063		250.45	247.77	5,804.60
73	46	1																
73	47		13	4266.177803	0.9997114545	246.6906498	-491.4459076	4335.181083		117.1011392	0.4578794335	-360.6388106	-106.7371364	303.2181492		-113.95	-598.18	4,638.40
73	48	1																
73	49	1																
73	50		12	4052.667233	0.9996810531	-197.9058434	-478.5685414	4123.951655		109.8917077	0.4458038746	186.128226	30.46259441	427.3889855		-11.78	-448.11	4,551.34
74	0	1																
74	1		6	359.9798817	0.9741699205	-26.24595541	62.94359805	447.8063685		319.8473443	0.6662611801	-425.6905061	-414.9869565	590.6855006		-451.94	-352.04	1,038.49
74	2	1																
74	3		2	5643.348353	0.9998331606	-54.02502359	615.0771616	5714.126807		158.7597013	0.518221248	-149.8211088	-210.336986	506.3100139		-203.85	404.74	6,220.44
74	4		19	5069.221987	0.9997940778	444.6660952	-515.4087512	5128.174534		441.5851013	0.7332913393	347.4487174	-245.7468806	917.7684409		792.11	-761.16	6,045.94
74	5		14	3294.934942	0.9995230081	306.0606081	640.7255836	3323.301106		260.8615173	0.6227649718	-266.5765303	-576.3857985	392.6083321		39.48	64.34	3,715.91
74	6		1	2648.697297	0.999272766	-549.404004	-8.298603181	2696.277095		117.4377068	0.4584294504	375.5150383	124.3745911	278.6111449		-173.89	116.08	2,974.89
74	7	1																
74	8	1																
74	9	1																
74	10		11	3087.944632	0.99459142	-431.1426146	-20.18290894	3161.894862		200.6836595	0.5669412936	555.2544571	91.12826416	316.4563221		124.11	70.95	3,478.35
74	11	1																
74	12	1																
74	13		16	3522.648802	0.999581024	539.6887908	159.6435656	3582.186591		190.0435369	0.555482556	-367.3605666	100.3317154	497.612281		172.33	259.98	4,079.80

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

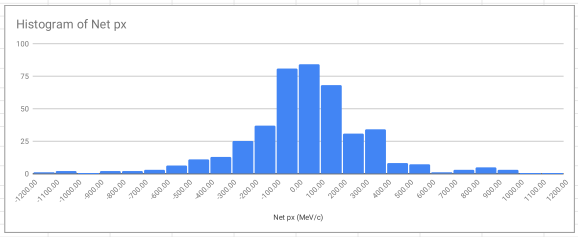
*Cells below (Columns O, P, and Q) contain formulas. Do **not** overwrite!*

merged		Background	Signal Event	Muon						Proton						Net	Net	nu-beam
Tuple	Entry	(enter a 1)	Slice No.	KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)		KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)		px (MeV/c)	py (MeV/c)	pz (MeV/c)
74	14	1																
74	15		9	6598.318638	0.9998773139	552.2593778	10.19817872	6679.697698		129.7562877	0.4777835023	-439.1267168	-12.03451979	259.3884864		113.13	-1.84	6,939.09
74	16	1																
74	17	1																
74	18		7	5430.360701	0.9998200732	-319.6982112	409.7719526	5509.906813		234.7428351	0.6002208068	252.8653546	-579.797514	308.8295847		-66.83	-170.03	5,818.74
74	19	1																
74	20		5	3682.181998	0.9996155855	-601.1285704	168.0179906	3733.917096		198.1984982	0.5643143921	583.8064923	-25.65065033	263.8466428		-17.32	142.37	3,997.76
74	21	1																
74	22	1																
74	23		19	6002.972038	0.9998522299	448.7038497	-224.0355642	6086.441517		226.2656495	0.5923808712	-481.161542	357.8320363	340.7496249		-32.46	133.80	6,427.19
74	24	1																
74	25	1																
74	26		3	3163.424836	0.9994838408	583.4103968	145.8519597	3210.908816		316.8846114	0.6642853444	-267.805369	120.1000997	780.2228132		315.61	265.95	3,991.13
74	27	1																
74	28	1																
74	29	1																
74	30		1	5367.707768	0.9998159296	-316.6932277	-612.7284914	5428.054394		361.4411964	0.6920508549	219.781958	736.8292549	466.3496146		-96.91	124.10	5,894.40
74	31	1																
74	32	1																
74	33	1																
74	34	1																
74	35		7	5659.113203	0.999834072	-184.2594643	-390.8624961	5746.93405		235.2654125	0.60069524	189.0648632	607.2713254	303.6177581		4.81	216.41	6,050.55
74	36	1																
74	37	1																
74	38	1																
74	39	1																
74	40	1																
74	41		1	3443.697116	0.9995621697	367.9225204	-438.8065007	3500.615388		113.4772897	0.4518809917	-206.9068018	119.3508787	410.7376703		161.02	-319.46	3,911.35
74	42	1																
74	43	1																
74	44		1	3174.142782	0.9994872103	-323.9275553	-220.9008885	3253.924726		88.73905476	0.4066771359	242.4520377	61.14633397	334.4057742		-81.48	-159.75	3,588.33
74	45	1																
74	46		5	6132.625994	0.9998583095	-330.2347571	-445.119263	6212.066233		227.4269759	0.5934711907	439.838433	468.5211543	255.7461963		109.60	23.40	6,467.81
74	47	1																
74	48		1	4508.165593	0.9997409362	-474.5635346	-168.699698	4584.386726		224.9293319	0.5911197152	147.8551492	13.63068006	671.2031663		-326.71	-155.07	5,255.59
74	49	1																
74	50	1																
75	0	1																
75	1		6	3080.531053	0.9994566209	-401.7101817	88.80315222	3157.107223		230.6870519	0.5965040409	660.7355921	45.77711548	217.5278337		259.03	134.58	3,374.64
75	2		8	3876.546988	0.9996522073	243.8738343	543.2218199	3935.368728		167.9142983	0.529728491	-146.8290075	-233.3553582	516.9032351		97.04	309.87	4,452.27
75	3		6	6531.346673	0.999874825	523.3819453	98.4335069	6614.110246		144.4700227	0.4991133636	-412.1535659	-239.2146197	254.564636		111.23	-140.78	6,868.67
75	4	1																
75	5		1															
75	6		10	4657.403556	0.9997569201	-67.44294822	-576.1997994	4725.770611		320.5512377	0.6667276974	122.2690911	732.7979224	390.08293		54.83	156.60	5,115.85
75	7		2	4793.606887	0.9997702512	-540.7222578	-50.06561839	4867.282333		250.6983395	0.6142667654	581.7875043	-38.79117971	439.5205188		41.07	-88.86	5,306.80
75	8		8	4509.806974	0.9997411205	366.0279305	-576.2597412	4562.824418		447.6383189	0.736034223	-552.9091276	439.5341332	735.6974876		-186.88	-136.73	5,298.52
75	9		18	5898.051644	0.9998470189	134.0963866	-480.1227678	5981.396519		258.5617262	0.6208709944	-355.5307559	419.7091553	499.3576586		-221.43	-60.41	6,480.75
75	10		14	3450.502523	0.9995638445	193.2466365	-620.4746916	3494.029205		212.6972919	0.5792387945	-134.8032026	335.5967277	559.8778353		58.44	-284.88	4,053.91
75	11		9	4059.911907	0.9996821619	-332.289137	258.20573	4142.267486		231.2999888	0.5970697145	611.2670045	250.6236681	225.7407587		278.98	508.83	4,368.01
75	12		11	5085.171438	0.9997953416	-466.0397288	-254.791789	5161.854577		184.806484	0.5496323627	-297.691468	200.57487	501.9959281		-763.73	-54.22	5,663.85
75	13	1																
75	14	1																
75	15		6	3506.434692	0.9995772527	-272.1344579	-456.9129604	3570.519419		205.7446511	0.5722014175	195.7181344	583.7868157	221.7998931		-76.42	126.87	3,792.32
75	16	1																
75	17		2	2184.062064	0.9989474031	-297.5236377	-599.4510683	2186.531096		258.1304742	0.6205139766	248.0094744	621.6681724	320.786682		-49.51	22.22	2,507.32
75	18		10	1987.9209	0.9987407368	-440.4476258	-152.9059665	2037.625714		241.8582955	0.6065953723	619.4724205	262.0715111	244.5282003		179.02	109.17	2,282.15
75	19		13	3573.185238	0.9995924603	159.9722943	-502.1990238	3638.712224		197.0043526	0.5630416092	129.0120045	327.713398	533.2454517		288.98	-174.49	4,171.96
75	20	1																
75	21		6	4614.500025	0.99975248	-229.522446	219.694541	4707.622461		222.373723	0.5886881146	220.447749	-587.7768291	269.3406139		-9.07	-368.08	4,976.96
75	22		4	5685.859902	0.9998356014	402.9395174	295.132748	5768.324697		185.5497962	0.5504714892	-438.1706189	-381.7342357	211.6733959		-35.23	-86.60	5,980.00
75	23		5	3906.632352	0.9996574052	-236.3188612	448.3037821	3978.108375		368.3580944	0.6960155521	306.7411195	-6.110210103	855.9205897		70.42	442.19	4,834.03
75	24	1																
75	25		8	3770.15912	0.9996328452	-117.2680516	424.7796699	3848.589825		314.4425783	0.6626417376	167.5358981	-624.8052789	519.9216271		50.27	-200.03	4,368.51
75	26		13	5694.089929	0.9998360677	318.6065839	-594.2534546	5758.7995		189.7514251	0.5551600026	-233.5247948	480.4139681	326.5698492		85.08	-113.84	6,085.37
75	27		7	6353.24215	0.9998678252	703.7833185	288.1032709	6412.452901		280.7964151	0.6385121825	-598.506511	-357.0498186	346.3034576		105.28	-68.95	6,758.76
75	28	1																
75	29	1																
75	30	1																
75	31	1																
75	32	1																
75	33		17	4978.327877	0.999786647	551.4484015	-152.8594285	5049.924352		272.33051	0.6319674595	-442.9491547	-0.000079258827	623.5799787		108.50	-152.86	5,673.50
75	34	1																
75	35		10	4739.211398	0.9997650619	103.591911	602.5943923	4804.321782		361.1249321	0.6918675121	41.42989906	-324.3097331	837.25048		145.02	278.28	5,641.57
75	36		12	2883.542435	0.999382604	196.7408006	-512.4740127	2935.817489		183.7340339	0.5484164596	-171.2099204	490.1855076	329.9220726		25.53	-22.29	3,265.74
75	37		21	5975.822884	0.9998509073	469.5443911	227.3350377	6057.493606		364.5003758	0.6938149339	-407.1917553	-606.5139021	531.9764938		62.35	-379.18	6,589.47
75	38	1																
75	39		12	5118.927331	0.9997979782	115.1880592	648.7178375	5181.147425		76.96081042	0.3819726844	-138.7907233	40.74627448	359.6919834		-23.60	689.46	5,540.84
75	40		15	5035.434764	0.9997913616	82.40604279	-723.4062994	5087.527605		367.6037837	0.6955873388	-89.43535508	721.2020812	544.6339277		-7.03	-2.20	5,632.16
75	41		1	1570.608057	0.9980346917	-430.8837417	-21.5446323	1615.708015		248.6546482	0.6125169625	-356.3490509	-525.156861	354.303372		-787.23	-546.70	1,970.01
75	42	1																
75	43		9	5308.077161	0.9998118514	601.2148457	-144.9813542	5376.60678		311.2881759	0.6604982714	-813.8038672	41.48447964	129.9201684		-212.59	-103.50	5,506.53
75	44		3	2098.765711	0.9988642979	-260.24332	-402.2005839	2148.503296		321.1059171	0.6670945402	377.1886784	-5.730166826	750.4662394		116.95	-407.93	2,898.97
75	45		3	3416.128873	0.9995552854	-245.3492949	223.9686664	3503.850068		226.8274358	0.5929089658	613.6553123	-203.2974355	243.0560955		368.31	20.67	3,746.91
75	46	1																
75	47		5	4457.848311	0.9997351902	-692.4228463	-455.4289213	4485.721214		348.6326524	0.6844766146	-6.685164977	147.1302719	868.2669946		-699.11	-308.30	5,353.99
75	48	1																
75	49		8	3673.38353	0.9996137928	-195.6332375	-623.507469	3719.962792		292.0441126	0.6469006661	107.884361	688.6053451	383.8595605		-87.75	65.10	4,103.82
75	50																	

px	py	pz
267.20	-67.35	5,626.61
91.15	-66.71	3,591.44
-169.21	290.42	5,402.88
111.72	35.40	5,428.97
-168.35	-3.30	5,949.31
-7.89	12.45	6,247.78
127.37	-455.37	2,728.80
37.03	279.91	6,405.25
190.42	-1.22	5,426.60
-344.05	236.90	2,000.82
102.19	-80.82	3,760.46
254.07	-67.55	4,115.82
149.47	-115.29	5,450.94
-150.61		6,764.61
7.64	24.94	3,085.33
39.61	-76.05	4,217.03
-227.78	-490.15	6,566.85
-74.53	-115.68	4,536.27
-78.49		5,239.21
12.87	-131.89	4,437.59
-84.09	105.62	6,385.91
84.60	-222.94	5,540.20
15.95	199.54	4,345.71
150.48	421.12	1,652.62
47.78	-54.93	5,842.54
-198.64	-280.80	7,220.03
-397.80	159.09	4,077.73
392.81	-31.57	6,436.23
-7.89	-96.50	6,694.94
358.02	-453.59	1,393.96
-1,149.77	-1,476.10	6,973.58
-357.00	602.96	6,830.84
9.11	245.76	6,435.55
-473.42	1,091.73	3,815.93
-1.86	121.25	3,178.49
379.55	-621.68	8,342.65
-534.82	-1,236.42	8,599.15
977.51	-383.64	6,467.07
-505.27	-288.36	7,248.89
890.54	-801.19	4,038.30
690.59	9.31	6,501.48
203.40	-608.27	8,702.17
-882.51	-408.52	4,566.94
298.76	45.42	3,863.65
375.32	71.32	13,030.87
293.62	-12.46	8,015.84
399.27	-447.69	8,527.44
-21.68	-692.96	7,523.00
-347.33	-725.08	8,395.32
487.53	600.59	7,353.10
-269.80	-853.46	6,180.72
-425.45	-411.59	5,167.11
-1,089.26	80.75	5,220.25
-70.80	-831.00	6,280.22
-343.31	878.04	7,139.25
763.60	185.41	8,134.75
931.59	81.47	6,012.03
528.75	219.05	8,503.71
561.43	794.81	4,473.65
-238.15	-1,027.00	7,884.01
976.58	328.86	7,508.80
873.86	219.90	7,460.85
-641.01	512.57	5,972.81
-265.61	-572.83	7,399.39
467.71	-854.03	4,866.42
-620.46	333.74	6,180.30
848.14	228.50	7,968.05
-44.28	-785.81	5,930.41
533.76	714.91	5,864.48
-257.88	-273.21	6,022.20
315.91	-188.04	2,787.87
77.22	11.45	4,322.44
-216.93	73.03	3,526.37
102.03	233.57	4,712.21
27.76	80.23	4,257.63
-438.30	-337.95	3,389.75
-1.32	244.90	3,435.79
50.19	-79.55	6,382.97
127.94	-240.21	789.46
-181.25	86.72	6,159.32
-148.71	-85.04	5,810.21
152.53	3.68	4,575.15
-63.86	148.10	5,905.49
9.95	-81.78	5,421.21



Avg pz = 4,956.82 MeV
Med pz = 4,981.63 MeV
StdDev= 1689.829 MeV

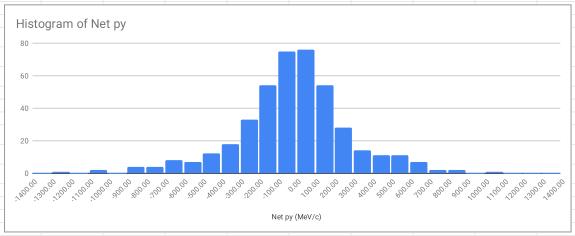


Calculated:
Std Dev = 289.03 MeV/c
delta-x = 0.35 fm (Heisenberg)
delta-x = 1.04 fm (Fermi Gas)

Visual: (FWHM/2) =
Std Dev =
delta-x = #DIV/0! fm (Heisenberg)
delta-x = #DIV/0! fm (Fermi Gas)

$$\Delta x \Delta p \geq \frac{h}{4\pi}$$

Δx = uncertainty in position
Δp = uncertainty of momentum
h = Planck's constant
π = pi



Calculated:
Std Dev = 310.96 MeV/c
delta-y = 0.32 fm (Heisenberg)
delta-y = 0.96 fm (Fermi Gas)

Visual: (FWHM/2) =
Std Dev =
delta-y = #DIV/0! fm (Heisenberg)
delta-y = #DIV/0! fm (Fermi Gas)

77.26	-107.65	4,073.31
87.64	153.73	6,487.28
186.01	-460.84	6,498.60
183.12	110.45	3,328.27
134.12	0.49	6,427.04
-64.37	-83.32	7,206.06
46.27	138.27	5,868.59
-17.33	166.28	3,899.30
127.73	-176.86	6,572.92
-65.35	-124.81	6,371.66
-4.84	-133.95	4,667.45
173.91	177.03	2,871.42
85.91	104.13	6,082.65
-8.05	97.94	4,214.85
-108.15	91.05	3,533.20
194.76	16.40	2,952.59
113.37	-221.71	4,366.62
-387.47	-392.54	758.88
-248.43	109.93	1,407.43
-340.56	-697.79	3,821.39
-45.06	106.28	7,424.89
143.35	185.15	3,522.82
145.63	-194.46	5,016.62
419.92	-60.82	8,371.62
278.26	381.82	6,161.36
109.87	146.88	2,806.32
298.71	241.22	5,013.53
-199.17	-201.86	5,781.58
-27.32	6.56	2,069.11
-510.91	425.33	6,759.97
112.70	93.83	6,202.90
-433.86	-323.32	4,529.65
106.92	115.39	6,181.73
317.04	61.91	5,583.00
-133.87	-113.93	6,107.67
-181.28	-552.73	4,144.21
258.89	-61.53	2,797.27
344.52	-82.40	5,093.58
31.24	-380.42	3,729.34
43.53	122.79	3,313.66
80.37	-193.45	4,637.43
152.27	-222.25	5,854.42
352.17	501.87	3,801.06
-29.29	161.10	6,029.12
-47.10	-246.89	5,246.74
84.82	-74.29	6,261.49
-161.26	176.14	3,948.36
-190.07	52.82	7,037.16
-266.14	2.24	1,236.95
45.40	-13.93	5,796.18
182.22	-175.95	2,971.86
91.33	-42.76	5,031.38
-261.35	19.30	4,695.99
7.37	-125.82	4,840.26
303.29	-241.26	6,186.46
-220.06	522.97	4,000.47
-275.96	-129.79	5,098.81
299.39	10.27	5,777.36
170.36	178.27	6,362.36
80.25	-95.91	3,458.71
225.44	181.58	4,251.23
3.62	235.48	3,529.92
352.17	501.87	3,801.06
-117.44	42.07	2,885.16

776.38	399.47	4,465.46
158.46	109.44	6,662.06
-293.09	-430.94	4,247.19
414.66	-29.36	4,893.53
-11.78	2.09	4,001.45
5.51	-244.11	3,548.34
28.79	116.90	4,047.27
386.99	-117.62	4,339.73
28.87	-39.21	6,398.66

75.31	-123.38	3,675.27
-144.58	-324.98	2,589.10
21.20	-113.54	3,943.02
503.01	-631.45	8,507.81
100.27	109.16	2,886.46
87.19	-7.28	4,732.19
105.83	-75.93	5,082.33
-32.57	287.50	3,644.37
-173.01	-116.87	6,321.11
-69.18	-217.21	1,441.19
359.25	-249.31	6,480.17
-62.84	-24.77	3,449.63
-123.43	247.41	7,650.53
260.27	285.15	6,191.06
268.24	-275.22	3,298.63
-74.46	75.36	4,065.56
-6.04	107.89	1,942.33
-63.83	77.30	5,229.94
-179.33	122.61	7,472.42
-144.14	35.95	2,273.93
-91.95	395.78	5,961.22
-99.45	-51.60	6,981.46
91.49	-124.59	5,737.48
251.61	258.26	4,756.81
371.70	-27.42	3,471.94
53.99	12.78	3,183.58
265.71	221.43	4,891.56
292.46	140.73	1,428.10
311.10	-50.98	6,072.53
94.77	-46.86	1,266.14
-56.72	-126.49	5,030.81
-71.72	57.53	6,825.08
126.72	-31.80	4,498.94
-187.70	-249.91	5,525.18

45.71	-83.03	6,578.55
-8.93	92.65	6,149.54
92.45	-71.67	7,160.27
-1,045.57	641.75	5,175.61
-131.15	-65.22	4,106.42
-493.45	433.14	3,736.24
49.39	49.25	3,955.66
307.05	88.95	1,491.82
89.98	174.09	6,006.45
126.95	-49.62	5,385.62
314.86	58.19	5,473.16
-76.59	454.76	6,294.77
-59.64	-150.18	4,876.85
150.03	38.95	3,711.61
40.01	-15.86	5,293.92
-60.08	-135.93	3,121.93
-64.46	-172.30	6,463.76
-110.92	-99.12	5,719.78
-53.82	335.04	3,471.96
174.13	104.89	3,786.88
204.58	58.19	3,062.63
169.53	-16.01	3,340.68
-6.31	-48.23	2,548.18
-221.94	-138.26	1,787.09
-6.23	-146.25	3,675.66
167.95	-285.19	3,834.14
46.46	80.69	4,606.98
-526.14	-107.29	3,433.81
140.07	-154.63	3,679.18
-89.27	3.40	7,295.74
289.17	229.99	5,142.93
331.06	-163.61	4,963.51
-425.99	-174.42	4,966.64
110.38	301.90	4,707.46
72.23	-107.80	4,301.35
160.19	55.12	5,676.59
105.75	90.04	3,752.49
-11.87	-111.14	2,660.76
74.30	-104.14	4,747.65
888.54	-30.66	7,420.89
32.19	-599.97	4,644.24
360.81	370.83	3,990.97
-106.55	82.11	5,871.78
546.98	-1,038.93	3,296.18
-329.12	-284.01	10,138.16
161.72	-209.83	6,319.38
383.84	-23.66	6,442.39
-26.26	-65.94	6,434.64
209.56	-290.86	5,415.86
-14.48	496.08	6,680.85
-70.64	320.77	3,641.12
345.13	-308.07	3,201.71
-417.46	-488.22	5,982.28
-281.27	-197.63	3,864.89
-53.67	-54.47	4,806.72
-73.89	92.93	5,962.40
55.86	-5.81	5,992.17
382.84	-233.89	4,287.16
-46.31	-45.30	3,020.19
133.70	86.73	952.97
-21.30	325.37	4,112.50
-360.68	681.29	4,871.93
-29.60	-97.42	2,959.65
-510.48	169.98	1,200.69
257.13	-523.72	4,128.17
146.06	395.37	6,135.95
320.99	161.11	7,636.22
-310.17	178.38	5,373.08
-184.20	4.49	4,943.88
-141.49	143.12	3,871.27
26.19	540.00	3,705.65
-892.71	286.17	3,744.48
360.33	1.68	3,348.97
350.65	-566.00	4,244.85
-259.90	563.18	6,895.89
-11.79	-1.30	5,157.38
100.86	581.50	7,893.57

493.12	512.51	8,213.03
-537.93	-244.97	6,477.15
561.63	-147.05	3,847.25
279.17	-340.00	5,446.05
405.14	-30.37	5,287.49
-109.15	-214.80	4,215.42
415.30	331.54	5,021.99
-10.09	30.23	4,657.06
1.71	-787.73	5,905.07
217.07	-235.12	5,468.67
19.42	217.60	3,444.81
-157.89	79.37	4,669.14
867.23	-100.01	3,109.87
-97.17	-36.73	5,677.22
-107.81	129.46	4,921.40
-26.17	541.75	3,959.55
165.60	-333.01	2,260.51
77.70	168.41	7,684.35
-201.08	62.49	4,541.45
177.06	137.53	6,217.87
-329.14	25.01	2,012.42
-77.85	19.22	4,249.21
235.82	-29.02	5,059.55
92.91	-53.55	5,795.20
128.53	-122.99	2,857.20
65.75	-31.69	6,772.61
107.51	172.41	1,845.36
164.75	39.35	6,293.13
-28.18	-74.84	7,243.45
-254.98	-278.30	5,747.96
116.90	10.21	8,035.81
-74.23	425.06	3,706.81
-294.57	-246.72	5,344.40
-239.97	39.53	5,290.06
-110.03	611.79	4,720.73
91.39	56.35	5,576.86
75.61	-143.24	6,866.29
185.28	170.20	4,794.18
216.34	-13.71	4,328.85
50.13	11.45	3,914.64
23.13	63.29	3,143.72
59.55	58.92	4,124.82
-55.74	-138.60	5,810.66
197.14	-210.77	5,936.05
269.15	-345.62	6,112.93
-211.85	259.52	6,112.69
165.79	127.81	7,933.41
18.64	-302.41	4,274.71
350.49	468.74	5,468.11
71.59	-119.41	4,118.81
86.62	-84.15	4,829.67

150.12	21.96	4,981.63
117.24	-29.14	6,955.64
396.62	-201.98	5,773.67
-126.89	-69.37	7,542.68
30.42	75.26	3,604.76
345.42	-620.38	2,684.44
-132.07	253.46	850.22
-36.20	-95.39	5,121.67
146.08	482.59	4,128.62
-76.85	-112.19	3,363.88
-257.56	53.60	6,409.01
50.14	-221.20	3,223.35

144.97	-195.45	3,368.93
206.08	-314.70	2,884.54
88.26	335.10	6,516.95
58.33	-31.02	3,916.43
102.99	-187.04	5,532.42
-28.71	-23.22	4,770.96
92.96	7.19	2,763.84
92.49	205.70	3,968.22
38.86	-40.96	4,351.67
-93.63	10.85	5,953.64
-126.98	-92.99	5,059.71
398.24	-651.96	6,367.46
-31.47	185.69	4,498.95
313.17	-274.89	6,086.57
-69.14	-213.93	4,898.51
-87.19	102.20	4,472.96
471.12	-601.49	5,546.80
500.84	581.22	5,058.97
235.41	-303.10	2,028.95
77.33	242.87	3,248.79
15.03	86.28	7,251.57
-52.28	10.11	6,475.17
207.92	164.54	6,150.31
119.79	-162.93	4,174.27
167.30	-14.49	4,767.83
11.50	115.76	3,883.68
-406.68	-261.83	5,106.03
-164.71	80.42	6,133.78
37.33	-155.15	5,932.87
21.75	80.97	6,819.27
-85.26	-90.77	5,294.95
-237.86	15.87	6,735.02
-132.32	-15.65	3,799.08
-43.83	-66.10	5,198.48
-32.18	-134.15	5,346.31
-154.14	137.62	6,160.97
10.23	34.47	3,586.40
250.45	247.77	5,804.60
-113.95	-598.18	4,638.40

-11.78	-448.11	4,551.34
-451.94	-352.04	1,038.49
-203.85	404.74	6,220.44
792.11	-761.16	6,045.94
39.48	64.34	3,715.91
-173.89	116.08	2,974.89
124.11	70.95	3,478.35
172.33	259.98	4,079.80
113.13	-1.84	6,939.09
-66.83	-170.03	5,818.74
-17.32	142.37	3,997.76
-32.46	133.80	6,427.19
315.61	265.95	3,991.13
-96.91	124.10	5,894.40
4.81	216.41	6,050.55
161.02	-319.46	3,911.35
-81.48	-159.75	3,588.33
109.60	23.40	6,467.81
-326.71	-155.07	5,255.59
259.03	134.58	3,374.64
97.04	309.87	4,452.27
111.23	-140.78	6,868.67
54.83	156.60	5,115.85
41.07	-88.86	5,306.80
-186.88	-136.73	5,298.52
-221.43	-60.41	6,480.75
58.44	-284.88	4,053.91
278.98	508.83	4,368.01
-763.73	-54.22	5,663.85
-76.42	126.87	3,792.32
-49.51	22.22	2,507.32
179.02	109.17	2,282.15
288.98	-174.49	4,171.96
-9.07	-368.08	4,976.96
-35.23	-86.60	5,980.00
70.42	442.19	4,834.03
50.27	-200.03	4,368.51
85.08	-113.84	6,085.37
105.28	-68.95	6,758.76
108.50	-152.86	5,673.50
145.02	278.28	5,641.57
25.53	-22.29	3,265.74
62.35	-379.18	6,589.47
-23.60	689.46	5,540.84
-7.03	-2.20	5,632.16
-787.23	-546.70	1,970.01
-212.59	-103.50	5,506.53
116.95	-407.93	2,898.97
368.31	20.67	3,746.91
-699.11	-308.30	5,353.99
-87.75	65.10	4,103.82
-404.93	-449.96	4,283.65
322.42	0.91	-105.89

395.69	409.81	2,580.19

-335.36	602.41	3,625.41

-406.96	113.11	2,235.55
89.19	827.83	7,055.38