Numbers initially seen in Rows 6-12, 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		11	4,828.58	0.99977	61.89	574.73	4,898.48	397.94	0.71	-301.50	-220.23	874.92	-239.61	354.50	5,773.40
1	1		2	5,350.06	0.99981	-8.00	-554.66	5,425.77	1,350.09	0.91	-3.06	-212.24	2,076.16	-11.06	-766.91	7,501.93
1	2		16	4887.787897	0.9997788381	-567.3823986	-23.10738493	4959.279106	176.8625205	0.5404761351	467.3807506	-43.996279	377.7485949	-100.00	-67.10	5,337.03
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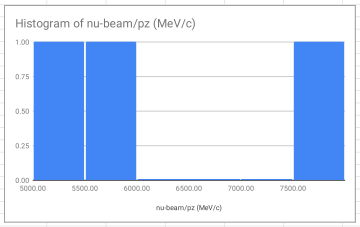

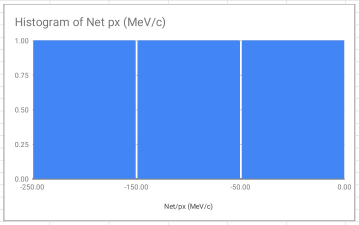

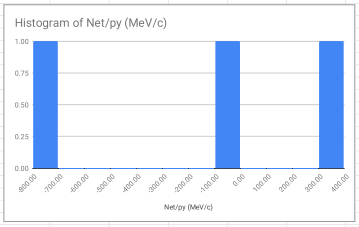

No. bkg events = 0

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 6-12, 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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*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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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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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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*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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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 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)
26	0		11	4,828.60	0.99977	61.90	574.70	4,898.50	1,427.80	0.92	27.30	253.10	2,156.90	89.20	827.80	7,055.40
26	1		2	5,350.10	0.99981	-8.00	-554.70	5,425.80	1,350.10	0.91	-3.10	-212.20	2,076.20	-11.10	-766.90	7,502.00
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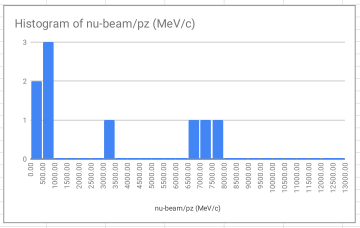

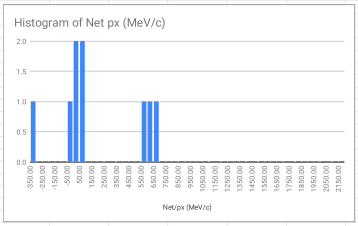

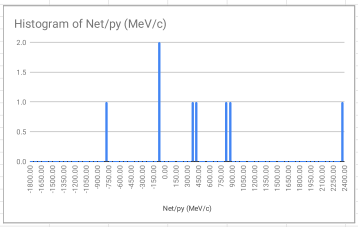

No. bkg events = 0

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!

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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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31	37													577.87	-65.76	647.98
31	38													3,567.98	2,356.86	6,522.00
31	39															
31	40													53.99	-53.99	412.99
31	41													643.99	384.88	66,229.00
31	42															
31	43													26.99	-2,389.34	522.99
31	44															
31	45															
31	46													653.01	442.99	3,388.06
31	47													23.97	-2,568.00	366.07
31	48													7,422.99	7,732.99	663.00
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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)
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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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*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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*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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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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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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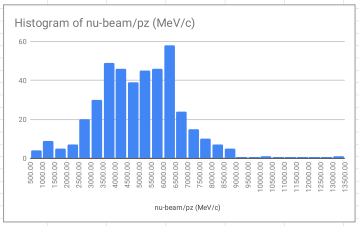
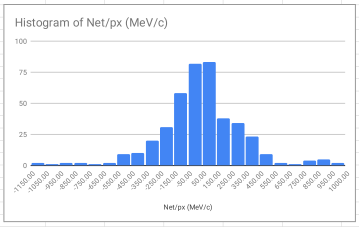
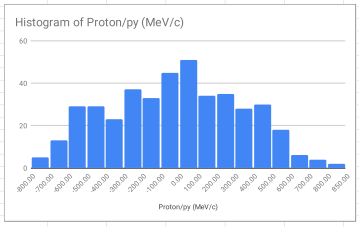
merged Tuple	Entry	Background (enter a 1)	Signal Event Slice No.	Muon KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Proton KE (MeV)	v/c	px (MeV/c)	py (MeV/c)	pz (MeV/c)	Net px (MeV/c)	Net py (MeV/c)	nu-beam pz (MeV/c)
51	0	1														
51	1		9	5,042.41	0.99979	508.01	220.79	5,116.44	193.87	0.56	-240.80	-288.14	510.16	267.20	-67.35	5,626.61
51	2		8	3181.792699	0.9994895951	-166.5230061	433.4600838	3252.132176	207.2243965	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	-163.8768659	-220.0388103	627.5484694	254.07	-67.55	4,115.82
51	19		27	5,044.15	0.9997520674	450.0260036	-389.3206603	5,113.57	138.6096183	0.4908331425	-300.558223	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	-0.6649621872	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	49.59215801	-148.3075404	2121.75974	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	0.9998877714	-265.8850089	-555.055403	6,426.67	1,250.82	0.9035222611	-81.4468763	-170.0286177	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	-14.65253384	-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	1206.443931	0.8992624697	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 6-12, 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	0.999730746	-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	-262.6312566	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	-42.91086821	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	-716.601204	-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	-543.0549214	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 6-12, 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)
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 6-12, 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															
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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	839.7892994	0.9938052193	315.5415296	115.088608	876.8066923	517.5572442	0.7646660614	-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	361.8068609	-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	200.814451	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 6-12, 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)
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	136.9647569	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	0.9993946509	-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	-495.5890445	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	0.9997892064	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	3747.618979	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															
63	42															
63	43															
63	44															
63	45															
63	46															
63	47															
63	48															
63	49															
63	50															

Numbers initially seen in Rows 6-12, 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)
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	192.9766297	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	0.535535986	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	410.7657723	618.5577073	4794.440661	228.0843063	0.5940860027	-60.28023647	-149.8220476	673.6677642	350.49	468.74	5,468.11
65	18		10	3624.885625	0.9996036822	-352.6210591	-601.3449104	3662.658318	286.7996757	0.6430317444	424.2060743	481.9376486	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
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Numbers initially seen in Rows 6-12, 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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69	0															
69	1															
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69	3															
69	4															

Numbers initially seen in Rows 6-12, 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)
69	5															
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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	3583.977188	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														

Numbers initially seen in Rows 6-12, 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)
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	215.160035	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															
72	2															
72	3															
72	4															
72	5															
72	6															
72	7															
72	8															
72	9															
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72	11															
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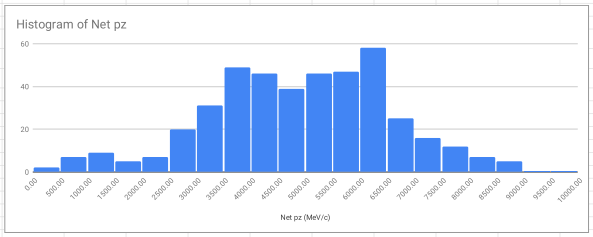
72	44															
72	45															
72	46															
72	47															
72	48															
72	49															
72	50															
73	0	1														
73	1	1														
73	2	1														
73	3		11	4264.853582	0.9997112796	211.9079551	-456.7637784	4339.476604	215.3932992	0.5819109457	-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	0.999459142	-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 6-12, Columns C-N are placeholders only. Please overwrite them as you enter actual data.

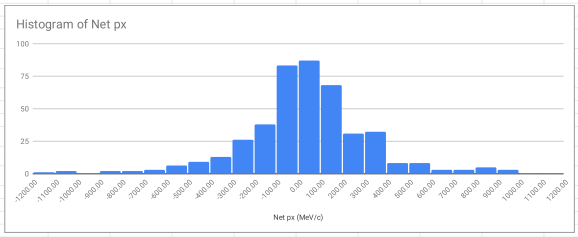
*Cells below (Columns O, P, and Q) contain formulas. Do **not** overwrite!*

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)
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	0.5297289491	-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	231.2899888	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	855.9205697	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	-0.00007925882	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	41.42969906	-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	-171.2098204	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 = 5,089.42 MeV
Med pz = 5,019.30 MeV
StdDev= 3411.450

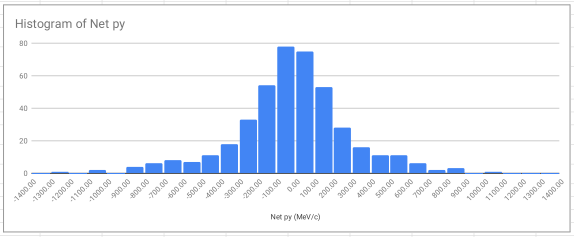


Calculated:
Std Dev = 487.15 MeV/c
delta-x = 0.21 fm (Heisenberg)
delta-x = 0.62 fm (Fermi Gas)

Visual: (FWHM/2) =
Std Dev = 200.00
delta-x = 0.75 fm (Heisenberg)
delta-x = 1.50 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 = 528.45 MeV/c
delta-y = 0.19 fm (Heisenberg)
delta-y = 0.57 fm (Fermi Gas)

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

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
-239.61	354.50	5,773.40
-11.06	-766.91	7,501.93
-100.00	-67.10	5,337.03

89.20	827.80	7,055.40
-11.10	-766.90	7,502.00

577.87	-65.76	647.98
3,567.98	2,356.86	6,522.00
53.99	-53.99	412.99
643.99	384.88	66,229.00
26.99	-2,389.34	522.99
653.01	442.99	3,388.06
23.97	-2,568.00	366.07
7,422.99	7,732.99	663.00

-326.12	862.09