Table of Relativstic Calculations									Transit Time for here vs. h			
x (m)	h =elevation (m)	ρ (g/cm3)	H (cm)	ρ/A * c	ΔE (MeV)	E2 (MeV)	E1 (MeV)	γ1 (1/c^2)	t'_1	t'_2	t' (in s)	Stop.Ratio R
0.0	320	1.23E-03	1468000	6.96E+05	3600	160.0	3760	35.58742	6.71E-06	1.88E-06	2.20	0.18
50.0	370	1.23E-03	1463000	7.00E+05	3609	160.0	3769	35.67409	6.68E-06	1.88E-06	2.18	0.18
100.0	420	1.24E-03	1458000	7.04E+05	3618	160.0	3778	35.76059	6.64E-06	1.88E-06	2.16	0.18
1000.0	1320	1.38E-03	1368000	7.84E+05	3779	160.0	3939	37.28057	6.02E-06	1.88E-06	1.88	0.24
1050.0	1370	1.39E-03	1363000	7.88E+05	3788	160.0	3948	37.36259	5.98E-06	1.88E-06	1.87	0.25
1100.0	1420	1.40E-03	1358000	7.93E+05	3796	160.0	3956	37.44432	5.95E-06	1.88E-06	1.85	0.25
1150.0	1470	1.41E-03	1353000	7.98E+05	3805	160.0	3965	37.52575	5.92E-06	1.88E-06	1.84	0.25
1200.0	1520	1.41E-03	1348000	8.03E+05	3813	160.0	3973	37.60687	5.89E-06	1.88E-06	1.82	0.26
1250.0	1570	1.42E-03	1343000	8.07E+05	3822	160.0	3982	37.68767	5.85E-06	1.88E-06	1.81	0.26
1300.0	1620	1.43E-03	1338000	8.12E+05	3831	160.0	3991	37.76815	5.82E-06	1.88E-06	1.79	0.27
1350.0	1670	1.44E-03	1333000	8.17E+05	3839	160.0	3999	37.8483	5.79E-06	1.88E-06	1.78	0.27
1400.0	1720	1.45E-03	1328000	8.22E+05	3847	160.0	4007	37.92812	5.76E-06	1.88E-06	1.76	0.27
1450.0	1770	1.46E-03	1323000	8.27E+05	3856	160.0	4016	38.0076	5.73E-06	1.88E-06	1.75	0.28
1500.0	1820	1.47E-03	1318000	8.32E+05	3864	160.0	4024	38.08673	5.70E-06	1.88E-06	1.74	0.28
1550.0	1870	1.47E-03	1313000	8.37E+05	3872	160.0	4032	38.1655	5.66E-06	1.88E-06	1.72	0.29
1600.0	1920	1.48E-03	1308000	8.42E+05	3881	160.0	4041	38.24391	5.63E-06	1.88E-06	1.71	0.29
1650.0	1970	1.49E-03	1303000	8.47E+05	3889	160.0	4049	38.32195	5.60E-06	1.88E-06	1.69	0.29
1700.0	2020	1.50E-03	1298000	8.52E+05	3897	160.0	4057	38.39961	5.57E-06	1.88E-06	1.68	0.30
1750.0	2070	1.51E-03	1293000	8.57E+05	3905	160.0	4065	38.47688	5.54E-06	1.88E-06	1.66	0.30
1800.0	2120	1.52E-03	1288000	8.62E+05	3914	160.0	4074	38.55377	5.51E-06	1.88E-06	1.65	0.31
1850.0	2170	1.53E-03	1283000	8.67E+05	3922	160.0	4082	38.63025	5.48E-06	1.88E-06	1.64	0.31
1900.0	2220	1.54E-03	1278000	8.72E+05	3930	160.0	4090	38.70633	5.45E-06	1.88E-06	1.62	0.32
1950.0	2270	1.55E-03	1273000	8.78E+05	3938	160.0	4098	38.782	5.42E-06	1.88E-06	1.61	0.32
2000.0	2320	1.56E-03	1268000	8.83E+05	3946	160.0	4106	38.85724	5.39E-06	1.88E-06	1.60	0.32
2050.0	2370	1.57E-03	1263000	8.88E+05	3953	160.0	4113	38.93205	5.36E-06	1.88E-06	1.58	0.33
2100.0	2420	1.57E-03	1258000	8.93E+05	3961	160.0	4121	39.00642	5.33E-06	1.88E-06	1.57	0.33
2150.0	2470	1.58E-03	1253000	8.99E+05	3969	160.0	4129	39.08035	5.30E-06	1.88E-06	1.56	0.34
2200.0	2520	1.59E-03	1248000	9.04E+05	3977	160.0	4137	39.15383	5.27E-06	1.88E-06	1.54	0.34
2250.0	2570	1.60E-03	1243000	9.10E+05	3985	160.0	4145	39.22684	5.24E-06	1.88E-06	1.53	0.35
2300.0	2620	1.61E-03	1238000	9.15E+05	3992	160.0	4152	39.29938	5.21E-06	1.88E-06	1.52	0.35
2350.0	2670	1.62E-03	1233000	9.20E+05	4000	160.0	4160	39.37145	5.18E-06	1.88E-06	1.50	0.36
2400.0	2720	1.63E-03	1228000	9.26E+05	4007	160.0	4167	39.44303	5.15E-06	1.88E-06	1.49	0.36
2450.0	2770	1.64E-03	1223000	9.31E+05	4015	160.0	4175	39.51411	5.13E-06	1.88E-06	1.48	0.37
2500.0	2820	1.65E-03	1218000	9.37E+05	4022	160.0	4182	39.58469	5.10E-06	1.88E-06	1.46	0.37
2550.0	2870	1.66E-03	1213000	9.43E+05	4030	160.0	4190	39.65476	5.07E-06	1.88E-06	1.45	0.38
2600.0	2920	1.67E-03	1208000	9.48E+05	4037	160.0	4197	39.72431	5.04E-06	1.88E-06	1.44	0.38
2650.0	2970	1.68E-03	1203000	9.54E+05	4044	160.0	4204	39.79333	5.01E-06	1.88E-06	1.42	0.38
2700.0	3020	1.69E-03	1198000	9.60E+05	4052	160.0	4212	39.86182	4.99E-06	1.88E-06	1.41	0.39
2750.0	**3070**	**1.70E-03**	**1193000**	**9.65E+05**	**4059**	**160.0**	**4219**	**39.92975**	**4.96E-06**	**1.88E-06**	**1.40**	**0.39**
2800.0	3120	1.71E-03	1188000	9.71E+05	4066	160.0	4226	39.99713	4.93E-06	1.88E-06	1.39	0.40
2850.0	3170	1.72E-03	1183000	9.77E+05	4073	160.0	4233	40.06395	4.90E-06	1.88E-06	1.37	0.40
2900.0	3220	1.73E-03	1178000	9.83E+05	4080	160.0	4240	40.13019	4.87E-06	1.88E-06	1.36	0.41
2950.0	3270	1.74E-03	1173000	9.89E+05	4087	160.0	4247	40.19585	4.85E-06	1.88E-06	1.35	0.42
3000.0	**3320**	**1.75E-03**	**1168000**	**9.95E+05**	**4094**	**160.0**	**4254**	**40.26092**	**4.82E-06**	**1.88E-06**	**1.34**	**0.42**

^ bolded is for dallas texas

Table of Measured Values

# of days	τ (μs)	Error (μs)	G_{fermi} =GeV/(ħc)^3	R (#/hr)
1.96	2.185	0.002	1.17E-05	63.1
4.99	2.160	0.003	1.18E-05	62.6
1.90	2.194	0.009	1.16E-05	97.2
5.95	2.160	0.001	1.18E-05	61.7
Overall	2.19	0.01	1.17E-05	62 ± 2