

Heim Mass Calculator 1989 by Javier Mazzone
 Software used Mathcad, version 14.0.0.163 [revision 702091438]
 v1.0 2009-10-06
 Script 1989 version a (43 pages)

$$\begin{aligned}
 h_b &= 1.0545919 \times 10^{-34} & c &= 2.997925 \times 10^8 & \text{KG2MEV} &= 5.609537 \times 10^{29} \\
 \gamma &= 6.6732 \times 10^{-11} & R &= 376.72482 & K\alpha &= 0.99998805 & \frac{1}{\alpha} &= 137.03601894 \\
 i &:= 0..14 & \mu &= 2.25902743 \times 10^{-31} & \epsilon &= -1
 \end{aligned}$$

$$M(T_{i,0}, T_{i,1}, T_{i,2}, n(T_{i,0}, m(T_{i,0}, p(T_{i,0}, l\sigma(T_{i,0}, l a_1(T_{i,0}, a_2(T_{i,0}, a_3(T_{i,0}, T_{i,1}, T_{i,1}, WN_0(T_{i,0}, T_{i,1}, T_{i,2}$$

548.78164298	18	22	17	14	28	33	48.65020478	9905.00602463
497.72648053	18	5	5	2	22	17	98.29474094	9332.35821061
493.68357884	17	26	30	28	16	31	7.26890935	8857.95768621
0.51100443	0	0	0	0	35	11	89.96774194	38.70293897
0.51802894	0	0	0	1	34	28	77.11059908	38.51308636
105.65947369	11	6	11	6	1	23	7.26890935	2830.26323296
139.56821495	12	9	2	3	25	0	95.62488479	3514.46295282
134.96430578	12	3	6	4	22	2	-0.03225806	3419.16218078
1115.59507942	1	3	0	-11	13	45	-0.03333333	16827.97669238
1672.49665103	4	4	-1	-15	47	3	69.73881857	23157.61439275
939.55339256	0	0	-2	17	0	36	101.15	14828.61091953
938.25989223	0	0	0	0	0	23	84.22944039	14792.56299378
1321.29597584	2	7	-17	2	26	25	15.61504719	18998.73467029
1314.88988712	2	6	-1	6	26	22	71.62409767	18990.08936297
1197.31792414	2	-6	-5	-8	21	47	94.49556334	18183.3029723

$$i := 15..20$$

$$M(T_{i,0}, T_{i,1}, T_{i,2}, n(T_{i,0}, m(T_{i,0}, p(T_{i,0}, l\sigma(T_{i,0}, l a_1(T_{i,c}, a_2(T_{i,c}, a_3(T_{i,0}, T_{i,1}, T_{i,1}, WN_0(T_{i,0}, T_{i,1}, T_{i,2}$$

1192.45799215	2	-7	-14	-2	21	46	83.86257745	18179.5972907
1189.41505465	2	-7	-12	10	21	30	26.15371703	18124.03125772
1231.20575784	2	-1	-16	-15	23	22	22.6433584	18448.51702782
1237.6682298	2	-1	-5	-1	23	41	93.76289308	18515.78761928
1235.99737347	2	-1	-1	-6	23	27	82.92386511	18467.56082197
1236.3026683	2	1	11	-6	21	27	69.73881857	18115.38381347