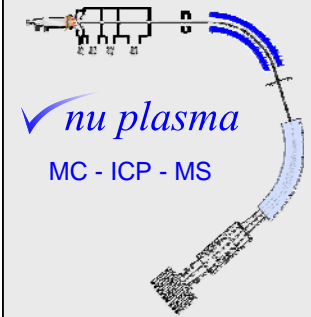


| | | | |
|-----------|--|---|--|
| H | 1.00783 2.01410 | 99.9844 0.01557 | |
| He | 3.01603 4.00260 | 0.00013 99.99999 | |
| Li | 6.01512 7.01600 | 7.589 92.411 | |
| Be | 9.01218 | 100 | |
| B | 10.01294 11.00931 | 19.82 80.18 | |
| C | 12.00000 13.00335 | 98.8922 1.1078 | |
| N | 14.00307 15.00011 | 99.6337 0.3663 | |
| O | 15.99491 16.99913 17.99916 | 99.7628 0.0372 0.20004 | |
| F | 18.99840 | 100 | |
| Ne | 19.99244 20.99385 21.99138 | 90.4838 0.2696 9.2465 | |
| Na | 22.98977 | 100 | |
| Mg | 23.98505 24.98584 25.98260 | 78.992 10.003 11.005 | |
| Al | 26.98154 | 100 | |
| Si | 27.97693 28.97649 29.97377 | 92.2297 4.6832 3.08716 | |
| P | 30.97376 | 100 | |
| S | 31.97207 32.97146 33.96787 35.96708 | 95.018 0.750 4.215 0.017 | |
| Cl | 34.96885 36.96590 | 75.771 24.229 | |
| Ar | 35.96755 37.96273 39.96238 | 0.3365 0.0632 99.6003 | |
| K | 38.96371 39.96400 40.96183 | 93.2581 0.01167 6.7302 | |
| Ca | 39.96259 41.95862 42.95877 43.95549 45.95369 47.95253 | 96.941 0.647 0.135 2.086 0.004 0.187 | |
| Sc | 44.95591 | 100 | |
| Ti | 45.95263 46.95177 47.94795 48.94787 49.94479 | 8.249 7.437 73.720 5.409 5.185 | |
| V | 49.94716 50.94396 | 0.2497 99.7503 | |
| Cr | 49.94646 51.94051 52.94065 53.93888 | 4.3452 83.7895 9.5006 2.3647 | |
| Mn | 54.93805 | 100 | |
| Fe | 53.93961 55.93494 56.93540 57.93328 | 5.845 91.754 2.1191 0.2819 | |
| Co | 58.93320 | 100 | |
| Ni | 57.93535 59.93079 60.93106 61.92835 63.92797 | 68.0769 26.2231 1.1399 3.6345 0.9256 | |

| | | | |
|-----------|--|---|--|
| Cu | 62.92960 64.92779 | 69.174 30.826 | |
| Zn | 63.92915 65.92604 66.92713 67.92485 69.92532 | 48.63 27.90 4.10 18.75 0.62 | |
| Ga | 68.92558 70.92470 | 60.1079 39.8921 | |
| Ge | 69.92425 71.92208 72.92346 73.92118 75.92140 | 21.234 27.662 7.717 35.943 7.444 | |
| As | 74.92160 | 100 | |
| Se | 73.92248 75.91921 76.91991 77.91773 79.91652 81.91671 | 0.889 9.366 7.635 23.772 49.607 8.731 | |
| Br | 78.91834 80.91629 | 50.686 49.314 | |
| Kr | 77.92040 79.91638 81.91348 82.91413 83.91151 85.91061 | 0.35351 2.28086 11.5830 11.4953 56.9889 17.2984 | |
| Rb | 84.91180 86.90918 | 72.1654 27.8346 | |
| Sr | 83.91343 85.90927 86.90889 87.90562 | 0.5574 9.8566 7.0015 82.5845 | |
| Y | 88.90586 | 100 | |
| Zr | 89.90471 90.90564 91.90504 93.90632 95.90827 | 51.452 11.223 17.146 17.380 2.799 | |
| Nb | 92.90638 | 100 | |
| Mo | 91.90681 93.90509 94.90584 95.90468 96.90602 97.90541 99.90747 | 14.8362 9.2466 15.9201 16.6756 9.5551 24.1329 9.6335 | |
| Ru | 95.90760 97.90529 98.90594 99.90422 100.90558 101.90435 103.90542 | 5.5420 1.8688 12.7579 12.5985 17.0600 31.5519 18.6210 | |
| Rh | 102.90550 | 100 | |
| Pd | 101.90561 103.90403 104.90508 105.90348 107.90389 109.90517 | 1.020 11.14 22.33 27.33 26.46 11.72 | |
| Ag | 106.90510 108.90475 | 51.8392 48.1608 | |
| Cd | 105.90646 107.90419 109.90301 110.90418 111.90276 112.90440 113.90336 115.90476 | 1.25 0.89 12.49 12.80 24.13 12.22 28.73 7.49 | |
| In | 112.90406 114.90388 | 4.288 95.712 | |

| | | | |
|-----------|--|---|--|
| Sn | 111.90482 113.90278 114.90334 115.90174 116.90295 117.90161 118.90331 119.90220 121.90344 123.90527 | 0.973 0.659 0.339 14.536 7.676 24.223 8.585 32.593 4.629 5.789 | |
| Sb | 120.90382 122.90422 | 57.213 42.787 | |
| Te | 119.90402 121.90306 122.90428 123.90283 124.90444 125.90331 127.90446 129.90623 | 0.096 2.603 0.908 4.816 7.139 18.952 31.687 33.799 | |
| I | 126.90448 | 100 | |
| Xe | 123.90612 125.90428 127.90353 128.90478 129.90351 130.90508 131.90415 133.90540 135.90722 | 0.08913 0.08880 1.91732 26.4396 4.08271 21.1796 26.8916 10.4423 8.86890 | |
| Cs | 132.90543 | 100 | |
| Ba | 129.90628 131.90504 133.90449 134.90567 135.90456 136.90582 137.90524 | 0.1058 0.1012 2.417 6.592 7.853 11.232 71.699 | |
| La | 137.90711 138.90636 | 0.09017 99.9098 | |
| Ce | 135.90714 137.90600 139.90544 141.90925 | 0.186 0.251 88.449 11.114 | |
| Pr | 140.90766 | 100 | |
| Nd | 141.90773 142.90982 143.91010 144.91258 145.91313 147.91690 149.92090 | 27.16 12.18 23.83 8.30 17.17 5.74 5.62 | |
| Sm | 143.91201 146.91491 147.91483 148.91719 149.91729 151.91974 153.92222 | 3.0734 14.9934 11.2406 13.8189 7.3796 26.7421 22.7520 | |
| Eu | 150.91986 152.92124 | 47.810 52.190 | |
| Gd | 151.91980 153.92088 154.92263 155.92213 156.92397 157.92411 159.92706 | 0.2029 2.1809 14.7998 20.4664 15.6518 24.8347 21.8635 | |
| Tb | 158.92535 | 100 | |
| Dy | 155.92429 157.92441 159.92520 160.92694 161.92681 162.92874 163.92918 | 0.056 0.096 2.34 18.91 25.51 24.90 28.19 | |
| Ho | 164.93033 | 100 | |
| Er | 161.92879 163.92921 165.93035 166.93206 167.93238 169.93548 | 0.137 1.609 33.61 22.93 26.79 14.93 | |

| | | | |
|-----------|---|--|--|
| Tm | 168.93426 | 100 | |
| Yb | 167.93391 169.93477 170.93634 171.93639 172.93822 173.93887 175.94258 | 0.127 3.04 14.28 21.83 16.13 31.83 12.76 | |
| Lu | 174.94079 175.94269 | 97.416 2.584 | |
| Hf | 173.94007 175.94142 176.94323 177.94371 178.94583 179.94656 | 0.1620 5.2604 18.5953 27.2811 13.6210 35.0802 | |
| Ta | 179.94749 180.94801 | 0.0123 99.9877 | |
| W | 179.94673 181.94823 182.95025 183.95095 185.95438 | 0.1198 26.4985 14.3136 30.6422 28.4259 | |
| Re | 184.95298 186.95577 | 37.398 62.602 | |
| Os | 183.95251 185.95385 186.95576 187.95585 188.95816 189.95846 191.96149 | 0.0197 1.5859 1.9644 13.2434 16.1466 26.2584 40.7815 | |
| Ir | 190.96060 192.96294 | 37.272 62.728 | |
| Pt | 189.95994 191.96105 193.96268 194.96479 195.96495 197.96788 | 0.01363 0.78266 32.9670 33.8316 25.2417 7.16349 | |
| Au | 196.96656 | 100 | |
| Hg | 195.96581 197.96676 198.96827 199.96832 200.97029 201.97063 203.97348 | 0.15344 9.968 16.873 23.096 13.181 29.863 6.865 | |
| Tl | 202.97234 204.97441 | 29.524 70.476 | |
| Pb | 203.97304 205.97446 206.97589 207.97604 | 1.4245 24.1447 22.0827 52.3481 | |
| Bi | 208.98039 | 100 | |
| Th | 232.03805 | 100 | |
| U | 234.04095 235.04393 238.05079 | 0.00548 0.7200 99.2745 | |



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