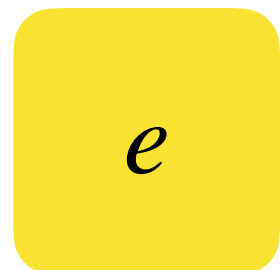
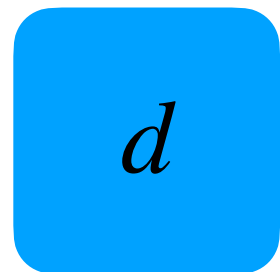
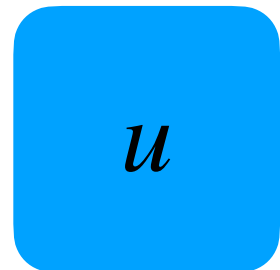
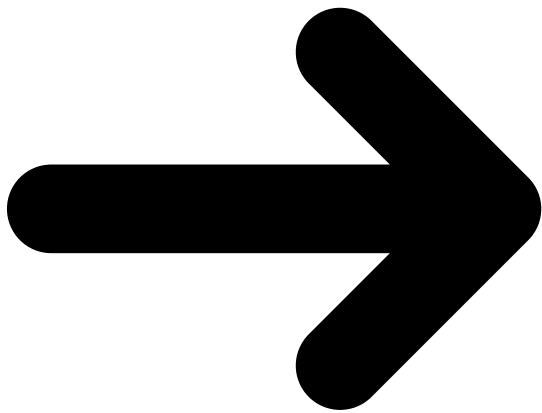


Astraturamateria

Atábora periódica

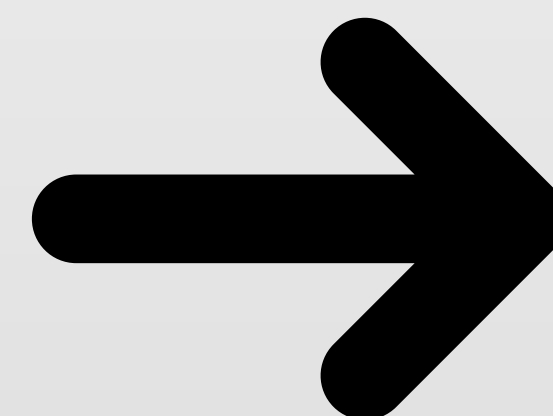
**Pódese explicar toda a
materia estable con só
dous quarks e o
electrón!**



A estrutura da materia

A táboa periódica

**Pódese explicar toda a
materia estable con só
dous quarks e o
electrón!**

[illegible] \mathcal{L}

C

e

Bloques de configuración electrónica

Notas

- $1 \text{ kJ/mol} = 96.485 \text{ eV}$.
- Todos los elementos tienen un estado de oxidación implícito de cero.
- Los estados de oxidación de los elementos 109, 110, 111, 112, 113, 114, 115, 116, 117 y 118 son predecibles.
- Las configuraciones electrónicas de los elementos 109, 110, 111, 112, 113, 114, 115, 116, 117 y 118 son predecibles.

| | | | | | | | | | | | | | |
|--------------------------------------|--|--|--|--|--|--|--|--|---|---|---|---|---|
| 138.90547 | 140.116 | 140.9076 | 144.242 | (145) | 150.36 | 151.964 | 157.25 | 158.9253 | 162.500 | 164.9303 | 167.259 | 168.9342 | 173.054 |
| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 538.1 1.10 | 584.4 1.12 | 520.0 1.13 | 533.1 1.14 | 540.0 | 544.5 1.17 | 567.1 | 588.4 1.20 | 565.8 | 573.0 1.22 | 581.0 1.23 | 589.3 1.24 | 596.7 1.25 | 603.4 |
| La | Ce | Pr | Nd | Pm | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb |
| Lanthano | Cerium | Praseodymium | Neodymium | Promethium | Samarium | Europium | Gadolinium | Terbium | Dysprosium | Holmium | Erbium | Thulium | Iterbium |
| [Xe] 5d ¹ 6s ² | [Xe] 4f ¹ 5d ¹ 6s ² | [Xe] 4f ³ 6s ² | [Xe] 4f ⁴ 6s ² | [Xe] 4f ⁵ 6s ² | [Xe] 4f ⁶ 6s ² | [Xe] 4f ⁷ 6s ² | [Xe] 4f ⁷ 5d ¹ 6s ² | [Xe] 4f ⁹ 6s ² | [Xe] 4f ¹⁰ 6s ² | [Xe] 4f ¹¹ 6s ² | [Xe] 4f ¹² 6s ² | [Xe] 4f ¹³ 6s ² | [Xe] 4f ¹⁴ 6s ² |
| (227) | 89 | 232.0380 | 231.0358 | 238.0289 | (237) | (244) | (243) | (247) | (247) | (251) | (252) | (257) | (259) |
| 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 |
| 499.0 1.30 | 268.103 1.30 | 581.0 1.50 | 587.6 1.38 | 604.5 1.30 | 584.7 1.28 | 581.0 1.30 | 581.0 1.30 | 608.0 1.30 | 608.0 1.30 | 619.0 1.30 | 627.0 1.30 | 638.0 1.30 | 649.0 1.30 |
| Ac | Th | Pa | U | Np | Pu | Am | Cm | Bk | Cf | Es | Fm | Md | No |
| Actinium | Thorium | Protactinium | Uranium | Neptunium | Plutonium | Americium | Curium | Berkelium | Californium | Einsteinium | Fermium | Mendelevium | Nobelium |
| [Rn] 6d ¹ 7s ² | [Rn] 6d ² 7s ² | [Rn] 5f ² 6d ¹ 7s ² | [Rn] 5f ³ 6d ¹ 7s ² | [Rn] 5f ⁴ 6d ¹ 7s ² | [Rn] 5f ⁶ 6d ¹ 7s ² | [Rn] 5f ⁷ 6d ¹ 7s ² | [Rn] 5f ⁷ 6d ² 7s ² | [Rn] 5f ⁹ 6d ¹ 7s ² | [Rn] 5f ¹⁰ 6d ¹ 7s ² | [Rn] 5f ¹¹ 6d ¹ 7s ² | [Rn] 5f ¹² 6d ¹ 7s ² | [Rn] 5f ¹³ 6d ¹ 7s ² | [Rn] 5f ¹⁴ 6d ¹ 7s ² |



Original file: https://commons.wikimedia.org/wiki/File:Periodic_table_large-es.svg

Existen más partículas?

Spoiler: sí