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| C | E | M | **S** | K | Z | S | Z | B | I | **S** | **E** | **P** | **O** | **T** | **O** | **S** | **I** | B | H | I | P | Q | Z |
| T | Z | U | **N** | P | X | G | Q | **S** | Y | H | **N** | **E** | **U** | **T** | **R** | **O** | **N** | **S** | M | E | I | K | X |
| G | D | E | **O** | X | Y | Z | V | **N** | S | S | S | V | M | H | I | T | W | W | G | Q | W | Y | V |
| U | Y | C | **R** | H | W | D | K | **O** | S | J | Z | Z | T | R | L | U | C | X | M | J | T | N | M |
| C | T | A | **T** | W | U | T | Q | **E** | R | C | R | C | X | P | Y | H | T | J | B | T | J | H | **L** |
| I | O | X | **C** | P | Z | M | R | **L** | J | N | T | M | R | C | X | O | N | T | V | K | D | U | **E** |
| L | T | P | **E** | K | H | Q | R | **C** | P | C | N | B | A | B | C | Z | G | K | F | F | O | E | **D** |
| B | F | C | **L** | W | P | C | G | **U** | P | Y | Z | **P** | **R** | **O** | **T** | **O** | **N** | **S** | A | V | A | R | **O** |
| B | O | C | **E** | Y | I | E | E | **N** | F | L | U | T | G | Y | W | Y | G | S | S | I | D | P | **M** |
| P | J | R | C | U | E | A | R | R | C | G | Z | J | P | K | I | J | H | H | H | J | M | K | **R** |
| R | X | H | X | X | J | V | I | H | A | O | A | I | J | K | W | K | Z | N | I | D | G | U | **A** |
| A | F | B | B | U | H | P | T | J | V | Y | J | B | P | Z | D | U | Z | D | A | K | S | W | **E** |
| B | **Y** | **G** | **R** | **E** | **N** | **E** | **G** | **N** | **I** | **D** | **N** | **I** | **B** | **R** | **A** | **E** | **L** | **C** | **U** | **N** | E | C | **L** |
| O | R | Q | X | B | G | N | **A** | **T** | **O** | **M** | **I** | **C** | **N** | **U** | **M** | **B** | **E** | **R** | D | G | K | M | **C** |
| L | U | D | O | J | C | A | V | A | N | Z | K | B | M | R | M | P | O | N | X | E | T | N | **U** |
| X | K | G | V | B | P | Q | O | Z | N | M | X | T | P | F | H | L | I | I | V | G | B | P | **N** |
| R | R | B | P | K | N | C | F | Q | K | T | M | B | X | W | P | V | V | S | B | U | Z | G | I |
| F | M | G | Z | D | T | P | X | D | N | D | M | U | A | A | F | Q | W | X | G | Y | I | O | U |
| Z | J | O | B | A | Y | Y | P | Q | I | T | **M** | **A** | **S** | **S** | **N** | **U** | **M** | **B** | **E** | **R** | Y | L | K |
| T | S | T | R | M | T | D | O | V | T | Q | N | H | A | V | Y | L | T | K | J | G | H | P | Q |
| R | E | J | V | A | Z | M | **S** | **S** | **A** | **M** | **C** | **I** | **M** | **O** | **T** | **A** | N | E | M | U | P | D | A |
| W | R | M | K | E | J | I | L | U | D | J | W | U | O | A | Q | W | V | V | O | W | I | V | I |
| I | N | B | Q | J | E | R | C | X | V | H | C | E | U | G | Y | X | W | R | Q | D | K | V | U |
| F | M | F | V | Q | T | D | O | E | B | W | Y | Z | Y | N | N | S | Z | T | H | G | L | M | M |

   nuclear model       atomic number       nucleons       neutrons       electrons       protons       nuclear binding energy       atomic mass       mass number       isotopes