

$$\text{He}^{2+}$$

 He^+ 1hl 4^1F 4^1D 4^1P 4^1S 3^1L 2^1P 2^1S 1^1S 3hl 4^3F 4^3D 4^3P 4^3S 3^3L 2^3P 2^3S