

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

 $\text{He}^+$  ${}^1hl$  $4^1\text{F}$  $4^1\text{D}$  $4^1\text{P}$  $4^1\text{S}$  $3^1L$  $2^1\text{P}$  $2^1S$ 

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 ${}^3hl$  $4^3\text{F}$  $4^3\text{D}$  $4^3\text{P}$  $4^3\text{S}$  $3^3L$  $^{23}\text{P}$  $^{23}\text{S}$