

n
↓

$$E_n = -Z^2/2n^2 \quad \langle \frac{1}{r} \rangle = n^2/Z$$

$$E_{1S} = -Z^2/2 \quad 1/2$$

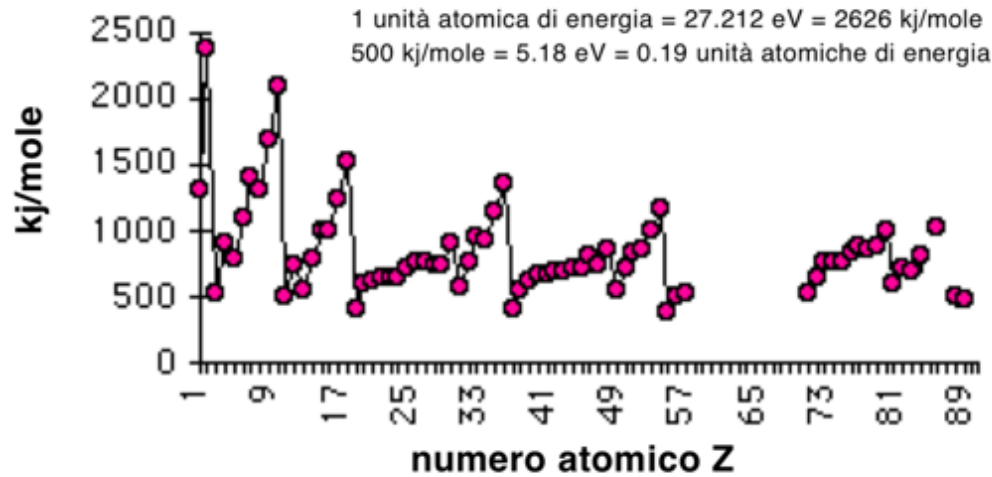
$$E_{2S} = E_{2P} = -Z^2/8 \quad 4/2$$

$$E_{3S} = E_{3P} = E_{3d} = -Z^2/18 \quad 9/2$$

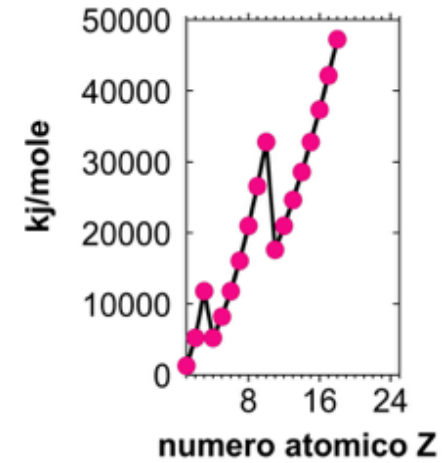
H 1										He 2
$-\frac{1}{2}, 1$										$-2, 1/2$
Li 3	Be 4	B 5	C 6	N 7	O 8	F 9	Ne 10			
$-\frac{9}{8}, \frac{4}{3}$	$-\frac{16}{8}, 1$	$-\frac{25}{8}, \frac{4}{5}$	$-\frac{36}{8}, \frac{4}{6}$	$-\frac{49}{8}, \frac{4}{7}$	$-\frac{64}{8}, \frac{4}{8}$	$-\frac{81}{8}, \frac{4}{9}$	$-\frac{100}{8}, \frac{4}{10}$			
Na 11	Mg 12	Al 13	Si 14	P 15	S 16	Cl 17	Ar 18			
$-\frac{121}{18}, \frac{9}{11}$	$-\frac{144}{18}, \frac{9}{12}$	$-\frac{169}{18}, \frac{9}{13}$	$-\frac{196}{18}, \frac{9}{14}$	$-\frac{225}{18}, \frac{9}{15}$	$-\frac{256}{18}, \frac{9}{16}$	$-\frac{289}{18}, \frac{9}{17}$	$-\frac{324}{18}, \frac{9}{18}$			

→ Z

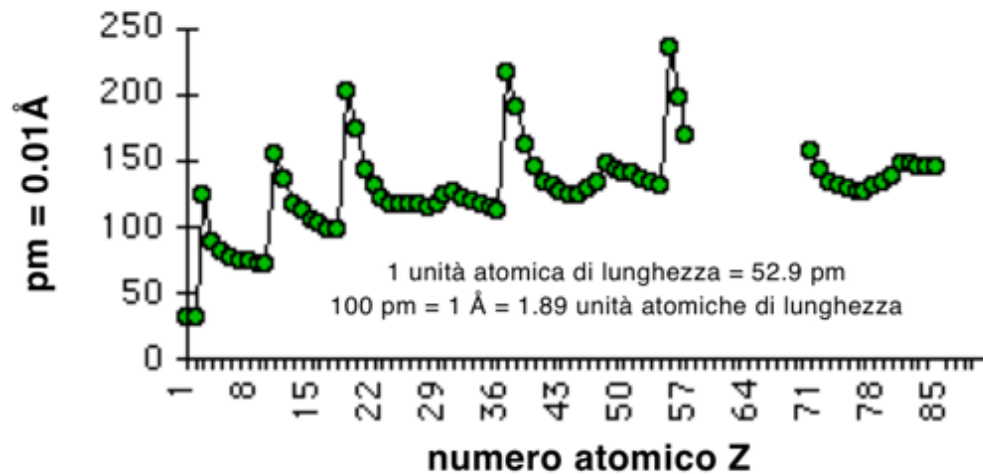
energia di prima ionizzazione



teoria "non interagente"



raggio covalente



teoria "non interagente"

