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(d) $3\pi < ka < 4\pi$ 1st point: $\alpha a = 3.44\pi$ 2nd point: $\alpha a = 4\pi$ Then $E_7 = 17.799$ eV $E_8 = 24.066$ eV so $\Delta E = 6.27$ eV $3.10 \times 10^6 \sin \cos \cos \alpha \alpha \alpha a a + a = ka$ Forbidden energy bands (a) $ka = \pi \Rightarrow \cos ka = -1$ 1st point
...

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