Finite-well bound states and hydrogenic quantum numbers

GRE Subject Test · GRE Physics · Vocabulary in context

Word	Example
finite square well	A **finite square well** always has at least one bound state.
tunnelling /ˈtʌnəlɪŋ/	**Tunnelling** explains alpha decay. α
bound state /baʊnd steɪt/	The **bound state** has a decaying tail outside this finite well.
scattering states	**Scattering states** have more energy than the well's edge.
radial probability /ˈreɪdɪəl ˌprɒbəˈbɪlɪti/	The **radial probability** of hydrogen's ground state peaks at the Bohr radius.
decay constant /dɪˈkeɪ ˈkɒnstənt/	A larger **decay constant** makes the wavefunction fall faster outside the well.

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