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dimensional wave Gaussian wave function

in the domain $-\infty < x < \infty$, $\psi(x,t) =$

$N e^{-\frac{x^2}{2a^2}} e^{-iEt/\hbar}$, with constants N ,

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and ψ . (a) Determine N . (b) Find $\langle x \rangle$, $\langle x^2 \rangle$, and Δx . (c) Sketch the graph of $\psi(x) = |\psi(x)|^2$. Useful integrals (also for later applications) are $\int_0^\infty x^n e^{-x} dx = n!$

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S11.12b. 1. Use de Broglie's equation to relate velocity to wavelength; solve for velocity. 2. Set the wavelength equal to the tunnel width and solve. $v = \frac{h}{m\lambda}$

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$\{6.626 \times 10^{-34} \text{ J} \cdot \text{s}\} \{1670 \text{ kg} \times 6.6 \text{ m}\} \times \left\{ \frac{\text{kg}}{\text{m}^2 \cdot \text{s}^2} \right\} \{ \text{J} \}$ \] Answer: the car would have to be driving very slowly.

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Solved problems in quantum mechanics

Mauro Moretti?and Andrea Zanzi†

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4.3. The function ψ^* has to be real, nonnegative, finite, and of definite value everywhere. Why? Solution. If we follow the Born interpretation of wavefunctions, then ψ^* is a probability density and hence must follow standard probability properties including being non-negative,

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finite and of a definite value at any relevant point in the space of the wavefunction.

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Review Exercises 1. Transform (using the coordinate system provided below) the following functions accordingly: $\psi(r, \theta, \phi)$ $\psi(x, y, z)$
Y a. from cartesian to spherical polar

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Solutions
coordinates $3x + y - 4z = 12$ b. from
cartesian to cylindrical coordinates $y^2 + z^2 = 9$ c. from spherical polar to cartesian
coordinates $r = 2 \sin \theta \cos \phi$.

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Shankar Principles of Quantum Mechanics

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Quantum computation is the field that investigates the computational power and other properties of computers based on quantum-mechanical principles. Its main building block is the qubit which, unlike classical bits, can take both values 0 and 1 at the same time, and hence affords a

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