

Cheatography

Sympy Physics Cheat Sheet

by gloo13 via cheatography.com/185324/cs/39866/

Hydrogen Wavefunctions		matrices	QHO 1D
<code>sympy.physics.hydrogen.E_nl(n, Z=1)</code>	Returns the energy of the state (n, l) in Hartree atomic units	<code>sympy.physics.matrices.mgammma(mu, lower=False)</code>	<code>sympy.physics.qho_1d.E_n(n, omega)</code> Returns the Energy of the One-dimensional harmonic oscillator
<code>sympy.physics.hydrogen.E_nl_dirac(n, l, spin_up=True, Z=1, c=137.035999-037000)</code>	Returns the relativistic energy of the state (n, l, spin) in Hartree atomic units.	<code>sympy.physics.matrices.msigma(i)</code>	<code>sympy.physics.qho_1d.coherent_state(n, alpha)</code> Returns $\langle n \alpha\rangle$ for the coherent states of 1D harmonic oscillator
<code>sympy.physics.hydrogen.Psi_nl(m, l, r, phi, theta, Z=1)</code>	Returns the Hydrogen wave function ψ_{nlm}	<code>sympy.physics.matrices.pat_matrix(m, dx, dy, dz)</code>	<code>sympy.physics.qho_1d.psi_n(x, m, omega)</code> Returns the wavefunction ψ_n for the One-dimensional harmonic oscillator
<code>sympy.physics.hydrogen.R_nl(n, l, Z=1)</code>	Returns the Hydrogen radial wavefunction R_{nl}	<code>sympy.physics.paulialgebra.evaluate_pauli_product(arg)</code>	<code>sympy.physics.sho.E_nl(n, l, hw)</code> Returns the Energy of an isotropic harmonic oscillator.



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QHO 3D

<code>sympy.physics.sho.E_nl(n, l, nu, r)</code>	Returns the radial wavefunction R_{nl} for a 3d isotropic harmonic oscillator.
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