

# Angular momentum in quantum mechanics.

## Princeton University Press - List of equations in quantum mechanics

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Notes: Bibliography: p. 139-142.

This edition was published in 1963

### Angular momentum operator

Even though the free electron displays some quantum properties such as spin , as the unbound electron approaches the atom and slows down perhaps by emitting photons , it undergoes a transition from classical to quantum behavior as its energy goes below the ionization energy.



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**Angular momentum**

Finally, it is helpful to define the operators. L just like p and r is a vector operator a vector whose components are operators , i. The phenomenon of noted above illustrates the impossibility of measuring position and momentum simultaneously and precisely.

### Angular Momentum in Quantum Mechanics by A.R. Edmonds

The above reasoning leading to the uncertainty principle is based on the of the electron.

### Angular momentum

Instead, it is , which is identical to SO 3 for small rotations, but where a 360° rotation is mathematically distinguished from a rotation of 0°. The close relationship between angular momentum and rotations is reflected in that proves that angular momentum is conserved whenever the laws of physics are rotationally invariant.

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