

Orbital magnetic moment of an electron

Failed to parse (syntax error):
$$\vec{\mu} = - \left(\frac{e}{2m_e} \right) \cdot \vec{L}$$

= - {γ} \cdot \vec{L} }

$e/2m_e$ is called the gyromagnetic ratio γ

m determines the direction of the vector of the orbital moment of momentum L (its component in the direction of the external magnetic field)

the unit is the Bohr magneton ($e\hbar/2m_e=0,927.10^{-23}$ A.m²)

Links

Related articles

- Magnetic properties of nuclei, nuclear magneton
- Quantum phenomena

Source

- KUBATOVA, Senta. *Biofot* [online]. [cit. 2011-01-31]. <<https://uloz.to/!CM6zAi6z/biofot-doc>>.