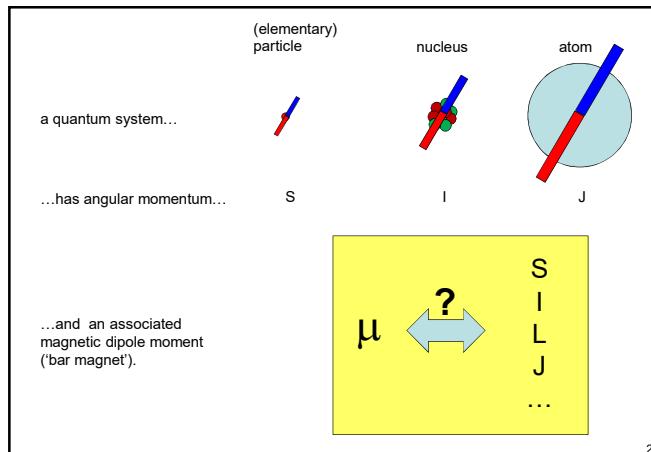


## g-factor (bis)

www.hyperfinecourse .org



Wikipedia :

A **g-factor** (also called **g value** or **dimensionless magnetic moment**) is :

a dimensionless quantity which characterizes the magnetic moment of a particle or nucleus.

It is essentially a proportionality constant that relates the observed magnetic moment  $\mu$  of a particle to the appropriate angular momentum quantum number and the appropriate fundamental quantum unit of magnetism, usually the Bohr magneton or nuclear magneton.

$$\mu_B = \frac{e\hbar}{2m_e} = 9.2741 \cdot 10^{-24} \frac{J}{T}$$
$$\mu_N = \frac{e\hbar}{2m_p} = 5.0508 \cdot 10^{-27} \frac{J}{T}$$

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