

Qubit definition	electron	proton	R(bio)	H atom
binary extraction	anomalous	magnetic moment		hyperfine structure

Per **definition is a qubit** in binary numbers then two states are simultaneously equally valid. In physics it can be any state such as either momentum, angular momentum, radial energy or tangential rotational energy or etc. All these states are possible in the ultra fast or ultra light dark matter medium surrounding matter.

Matter is: **electrons or protons** having negative and positive charge respectively, are the major part in our universe or their conjugated equivalent as the negative proton and the positive electron. In the anti universe then the antiproton and positron having negative and positive charge respectively with opposite Fermi spins to proton or electron. The conjugated equivalent is anti- proton positive and negative positron which can now be understood as swapping electric charge. The conjugated matters are not real in our cosmos, but exist in the conjugated universes.

R(bio) can be defined as the ratio of active H atoms contributing to keep a bio cell alive due to the anomalous magnetic moment of the proton and the non contributing generalised H atoms of all atoms or molecules in the bio cell.

The H atom or hydrogen is electric charge neutral but obviously exists in the four qualities of matter. Consists of protons and electrons.

Binary extraction: the ultra fast medium has qubit properties, while matter determines the binary extraction with respect to the medium. The ultra fast medium determines how the H atom can transfer into the gravity mode of magnetic collective coherence while the other mode of inertia is the single zero energy state representing the electric charge properties as well known already by the electron and proton.

The new insight is that the proton and electron and even the neutron in the gravity mode, neutral acceleration by the fast medium, or the magnetic state of coherence, are the naked states for the ultra fast dark matter medium. In the gravitation mode the fast medium squishes through a toroidal inner magnetic ring (doughnut hole) of the electron maintaining the near zero energy state of the H atom subjected to the magnetic flux conservation between energy states. The mediating mass for electrons and protons determines the defined naked states.

The ultra light medium has two energy states determined by Lamb's shift. In the zero energy state the medium has only short or momentary interactions to the inertia states of the atoms which are observable in the line splitting of the electromagnetic light spectra of the H atom, Lyman series. This interaction is a random exchange for the fast medium. In the fast gravity mode the medium is continuously excited in the coherence alternation cycle between the two naked states via the mediating mass. The naked states are independent of the nucleon composition of an atom.

The hypothesis of life could only come into being through a life bearing planet consistent with water and some oxygen atmosphere and dissolved minerals. The fast gravity mode is a necessary condition to the onset of the hypothesis. The mediation mass of water R_{bio} with respect to the H atom determines in the end the coding of DNA extraction from the ultra fast

dark matter medium embracing all forms of life as flora and fauna and sometimes the onset of an intelligent race might happen. All subjected to the diversity number of 2^{40} or $1.1 \cdot 10^{12}$ qubits. Due to the small difference between gravity mode and inertia mode the bio extraction coding always needs additional energy, either directly as light or as bio waste energy produced by the code of life itself. R_{bio} is the ratio of the generalised H atom of any atomic species to the real H atom but here with respect to bio matter. In general it is always very small with respect to one and especially for all biologic matter which is how the ultra fast medium 'sees' bio life.

Anomalous magnetic moment Only the proton has an magnetic moment that is exceptional compared to any other atomic states which means the hyperfine splitting for the H atom is unique. It explains why the hypothesis of life has to be based on this magnetic coherence process. The **hyperfine structure** as representation of the anomalous moment can be observed in the spectrum of the H atom subjected to a magnetic field.

What is the reason why the atoms do not decompose in the fast gravity mode. The range in variation between the generalised mediating mass and the one of the H atom is only 1.5% of atoms over this range. The sequential time string, binary extraction coding, to decompose an atom in which the mainly the nucleon decomposes into the naked state, should always be smaller than the time string of the H atom for proton and electron solely or at most equal to. Therefore it seems the mediating mass acts as a measure for the time sequence strings.

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