

Superheroes aid the teaching of physics

What is matter? This is one of the most fundamental and fascinating questions that a young student can ask. Quantum physics provided part of the answer in the last century. Physicists have reached conclusions that, in some cases, are difficult for young students or indeed anyone interested in science to comprehend and assimilate.

'Superheroes in a quantum world: a quark model for pre-university education' is our new teaching method that introduces some elementary aspects of quantum physics, as well as the quark model, using comic characters. It is not our intention to delve deeply into quantum theory, but to use humour to make quantum physics easy to remember.

We have characterized quarks and other elementary particles, such as electrons, photons and gluons, as superheroes of a quantum world in order to explain their properties and the reasons for their names. The world where they live has special features that confer some peculiarities on them. For example, they have the extraordinary power of transforming mass into energy ($E = mc^2$).

Just as a house is built from bricks and cement, all the matter of the universe is constituted of elementary particles and other particles that join them together. In our quantum world there are two superhero leagues, each with particular characteristics: the Fermions League and the Bosons League.



Figure 1 (left). Mr Electron is the leader of the Fermions League. **Figure 2** (right). The top quark can perform magic tricks with his hat.

The Fermions League represents the bricks of matter. It has a very rigid hierarchy. There is a big boss, Mr Electron (figure 1), and six followers, the quarks. Nobody has ever seen a quark directly but rumours of their misdeeds are well known by scientists. The main characteristic of these superheroes is that they are very touchy. If one of them appears in the same place and in the same conditions as another fermion, it is immediately rejected.

Physics Of Superheroes

JL Elias



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