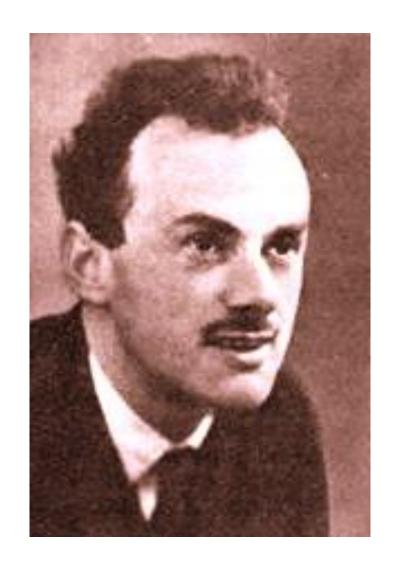
Living In the AMI-Material World

"If we accept the view of complete symmetry between positive and negative electric charge so far as concerns the fundamental laws of Nature, we must regard it rather as an accident that the Earth (and presumably the whole solar system) contains a preponderance of negative electrons and positive protons. It is quite possible that for some of the stars it is the other way about, these stars being built up mainly of positrons and negative protons."

(from Paul Dirac's Nobel Lecture December 12, 1933)



...there is a planet.

...there is a planet.

A strange world.



...there is a planet.

A strange world.

AN ANTIMATTER PLANET



THE PLANET ADANACIA



Adanacia is very much like our Earth

except that



Adanacia is very much like our Earth

except that

everything, all matter, is composed of antimatter.



The Adanacians do not refer to the matter on their world as "antimatter".



The Adanacians do not refer to the matter on their world as "antimatter".

Why should they?



The Adanacians do not refer to the matter on their world as "antimatter".

Why should they?

They call it matter.





Let us assume that we can both communicate with the planet's inhabitants, and even observe them and their surroundings.



BUT,
that we cannot interact
with them or their
surroundings
PHYSICALLY.



How could we know for certain that this planet (and everything on it) was composed of antimatter?



Is there anything we could ask the Adanacians?



Is there anything they could do in order to demonstrate for us that their planet is composed of what we call antimatter?

(the Adanacians have a knowledge of science and a technology that is at least equivalent to our own).

Discuss!



Oh, and by the way...



...there IS a way to for you to determine whether we live in a world made of what you call antimatter...



If you are interested, see the Extension Topic "Through The Looking Glass".

