

Shedding a bit of light on

Dark Matter and Dark Energy

Even before we had the Hubble space telescope we encountered a real problem with the spiral arms of galaxies. Unlike our solar system where the outer planets rotate slower, galaxies rotate more like a solid unit. Scientists refer to this saying galaxies have "flat rotation rates". The problem with this is that the spiral arms of galaxies all seem to be going faster than their escape velocity and this is impossible.

This implied some "*missing mass*" inside these galaxies must be the thing that, in addition to the known gravitational mass, is holding these galaxies all together.

After the Hubble space telescope started giving us pictures of space that no one had ever dreamed possible, came far more evidence of this "*missing mass*" or "*missing matter*" which now has taken the name of **Dark Matter**.

Scientists know it's best to keep changing the names of all these things they are working on because governments are more likely to waste taxpayer money on newer things than older things.

In the first few years of 1900 when Albert Einstein and Mileva Maric were copying and developing their own theory of relativity, based on Lorentz's relativity theory, everyone thought we were in a steady-state universe.

(Astronomers today almost unanimously agree that the earlier Lorentz relativity is better than Einstein's version because it allows gravity to act faster than the speed of light and this is more in agreement with what Newton taught and with what all the astronomical universities today teach.)

Einstein, while still with Mileva Maric, gave us his *cosmological constant*, which was a repelling force equal but opposite to gravity that would keep all the stars and galaxies apart from each other *(now Einstein's cosmological constant is an essential part of the repelling force of Dark Energy).*

Eventually Einstein would decide to do away with what he considered his two big blunders, Mileva Maric and his *cosmological constant*.

So, with what you have read so far you have now learned that ***Dark Matter*** is an attractive force like gravity and **Dark Energy** is an opposite repelling force.

Today, Einstein's *cosmological constant*, an important part of

Dark Energy, is again alive and well even though it initially was designed for a steady-state universe.

In the light of Einstein's abrupt reversal of his belief of his *cosmological constant* repelling force and its prerequisite Mach's principle, I have often thought that Mileva Maric, also a physicist, might have been the one who persuaded Albert to initially consider Mach's principle in the formation of general relativity.

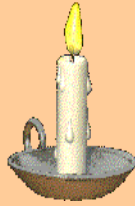
The reason I think that Mach's principle was Mileva Maric's concept and not really Albert Einstein's is that for years, while living with Mileva Maric, Albert Einstein told all the expanding universe theorists **they were absolutely wrong!**

(Mathematician Stephen Wolfram proved and said in his best seller *A New Kind of Science*, that "Math can only explain simple things but a simple model can explain a complicated universe.")

Einstein's belief that his math was superior to his model was a turning point and a big mistake.

This caused Albert Einstein to do an abrupt 180 degree turn: He departed from Mileva Maric, his *cosmological constant* and Mach's principle. **He then joined with the expanding universe group.**

And that is a bit of light shed on both *Dark Matter* and **Dark Energy**.



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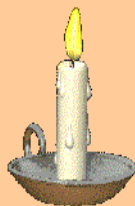
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<http://amperefitz.com/energy.htm> "All energy is a form of binding energy." (science) e-letter by Fitzpatrick.

<http://amperefitz.com/dark.m.e> Why NASA tells us we have 72% Dark Energy, 23% Dark Matter and 4.6% Atoms.

<http://amperefitz.com/gold1.html> More wave and scalar wave questions answered by Fitzpatrick.

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<http://rbduncan.com/why.we.have.gravity.htm> "Why we have GRAVITY and why we have Centrifugal Force.

<http://amperefitz.com/einsteins.blunder.htm> "Einstein's Biggest Blunder -- Wasn't?"

<http://amperefitz.com/plawrm.htm> "Electrons normally repel BUT . . . " says Dan Fitzpatrick Jr.

http://www.rbduncan.com/letter_june2004.htm "And Hubble warned us this was NOT an expanding universe."

<http://www.rbduncan.com/binary.htm> Binary Stars act exactly like Electrons.

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"Ampere really gave us this Relative Motion Law in 1825 for things he knew were moving in the wire (electrons)."

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"Fitz talks about some basic problems in physics." - by Fitzpatrick.

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Daniel P. Fitzpatrick Jr.