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Dark matter and dark energy, space and time, and other pseudo-notions in cosmology

Universe, space and time, “before” Big Bang and inflation, dark matter and dark energy, and the “relationship” between Einstein’s theory of relativity and quantum mechanics (“theory of everything”) versus EDWs

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**For Maia, Laura and Flavius Marinescu**

To every man is given the key to the gates of heaven; the same key opens the gates of hell.

Buddhist proverb re-quoted by Richard Feynman (Nobel Prize)

The task is, not so much to see what no one has yet seen; but to think what nobody has yet thought, about that which everybody sees.

Edwin Schrödinger (Nobel Prize) letter to [Albert Einstein](https://en.wikiquote.org/wiki/Albert_Einstein) (Nobel Prize), 13 June 1946

Pauli, a tough critic, was unconvinced. Feynman kept at it, and Pauli stayed unconvinced, Feynman, exasperated, asked, “Surely you can’t believe that everything I’ve said is wrong?” To which Pauli replied, “I believe that everything you’ve said is not even wrong.”

Richard Feynman (Noble Prize) and Wolfgang Pauli (Noble Prize)

Philosophical and scientific ideas about what the world is made of continue to change. Many loose ends remain in today’s best world-models, and some big mysteries.

Clearly the last word has not been spoken.

Frank Wilczek (Nobel Prize)

The really hard problems are great because we know they'll require a crazy new idea.

Mike Turner (in Panek 2011, p. 195)

The future ain’t what it used to be.

Yogi Berra

Somewhere something incredible is waiting to happen.

(John Wheeler)

The best is yet to come!

David Gross (Nobel Prize)

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In Chapter 1, we introduce the main ideas about EDWs from the other works. (2002, 2005, 2008, 2010, 2011, 2012, 2014).

In Chapter 2, introducing completely new arguments, we showed that space and time cannot even exist. Einstein’s theories remain both scientific correct ones, but we argue that the special and the general theory of relativity have to be re-thought within the EDWs framework. Moreover, we replace “space” for instance with “nothing” within our framework.

In Chapter 3, we introduce more information about Big Bang, inflation and gravitational waves. From our previous work (2014), in introduce some ideas but we developed these ideas with new arguments.

Chapter 4 is about the main topic of this book, dark matter and dark energy. After general details about these notions, we develop a new insight about the main notions: dark matter, dark energy, haloes, flat universe, the relationship between dark particles and other problems strong related to the main topics.

In Chapter 5, we continue our investigations from other works about the GUT and the TOE, about the impossible relationship between quantum mechanics (microparticles and waves) and Einstein’s theory of relativity (macroparticles and gravity). We argue that this combination is quite wrong. Also we bring new arguments against quantum mechanics.

In Conclusion, we reiterate that the old framework the unicorn world has to be replaced with the EDWs.