



## Unterwegs mit Einstein und dem Esel:

„On my Way with Einstein and the Donkey“  
by Peter Ostermann,  
DigIT Verlag, 2015 (ISBN 978-3-941550-26-1)

What a powerful book!

The author Peter Ostermann not only challenges the well-established „Big-Bang“ - academia and the Cosmological Concordance Model (CCM) but also sets out to offer an alternative model which is strictly based on Einstein's original equations, respecting Einstein's "biggest blunder" (the introduction of the cosmological constant) and proves his model of a "Stationary background Universe Model" (SUM) convincingly.

I was drawn to this subject a couple of years ago – after the not so convincing results of the BICEP-2 study and having read a couple of books on the “beginning of all things” (like Hans Küng, “Der Anfang aller Dinge”, or Jim Holt, “Why does the World exist?”) and by my growing uneasiness with the proposed big-bang theory, in particular the singularity at the beginning of everything and the postulation that everything developed from nothing (by coincidence?).

Now, on the 100<sup>th</sup> anniversary of the “golden” Einstein year, here is a book picking up all those uncertainties and provides meaningful, sound answers according to an elaborated approach straight along mathematical and physical laws.

According to the author Peter Ostermann the big-bang approach is missing some plausibility which can be exposed by a few simple questions:

- 1. If everything became into existence from nothing, then no physical law can describe it**
- 2. If it was created out of vacuum, then this vacuum was not empty.**
- 3. If it was not empty, then the energy density was not zero.**
- 4. If there was an energy density then it is that of the Universe.**
- 5. If there is a Universe, then a Cosmos became into being.**
- 6. If a Cosmos was created then this is not identical with the Universe.**
- 7. If there is an eternal Universe then there was no single “big-bang” of space and time.**

Peter Ostermann proves very eloquently and convincingly in his book (and with references to all his published papers over the past 10 years on this subject) his SUM model: A steady infinite, eternal Universe with a local-bang cosmos (see also “Model of a Stationary Background Universe behind our Cosmos” – reference below). This model is based on a hitherto unknown stationary cosmological solution of the general relativity equations found by the author in 2001/02. Stationary systems on the one hand are not static, but on the other hand are consistent in their variability. In the simplest case this is true for a vibrating string, in our case it

stands for a living universe.

Fictitious characters representing the opinions of real people (like Mr. Frank U. Frey or Hypolite van Tast) are used as artifice to argue the pros and cons and the general state of the CCM.

Having read the book the reader is convinced that the SUM model is a simple, realistic alternative to all the complex mathematical adjustments and fantastic assumptions and adaptations of the CCM.

Of course the author is also aware that with his model he did not solve the "metaphysical" question but that he has moved it to the infinite, eternal Universe. However, he is not shying away from this question either.

**"Behind any Physics and Beyond"** (page 547 ff).

In this chapter the author is addressing the "metaphysics" and I have to say, I liked this chapter and the conclusions very much.

"Einstein once said that science without religion is lame, religion without science is blind", is quoted by Peter Ostermann at the beginning of the chapter to continue:

"If our evolutionary cosmos originated in a kind of local-bang from something like a universal chaos, and if it all makes sense, then this sense was laid out before such a gravitational creation event, in the form of laws that seem to be called divine. (...) I am convinced that life is foreseen in the universe ever since, in whatever form - as independent quality or most likely as contained in the matter self. In this sense I conceive God - whether he exists or not - within the world, not outside, immanent rather than transcendent (...).

But, if by now many people accept that there must have been something in the beginning I will call this the eternal universe in the background. (...) For me personally, the most beautiful designation is the name taken from the book of Genesis: Tohu-va-bohu. The biblical annunciation suddenly seems to converge here with other creation-myths of various world religions in a mathematical-physical worldview.

**"From Life between German Ivory Towers"** (page 567 ff)

This "political" chapter might remain (as a "benchmark") or be removed in the next issue (as suggested by the author) - is a passionate plea for stopping to (mal-) treat our planet as we do and assume responsibility for the generations to come, because moving on to another (new) planet is "science fiction" according to Peter Ostermann, our world is the only one we got!

Unfortunately the book is currently available only in German - however, the author is looking for professional translators (see homepage <http://peter-ostermann.de> ). I think it is only a matter of time until this important book is available in many other languages also.

In the meantime you can download all the relevant papers and publications from arXiv.org or Peter Ostermann's home page (pdf-files, for free), the most recent one is mentioned here:

"Model of a Stationary Background Universe behind our Cosmos"(Dec 21, 2014)

[http://www.peter-ostermann.de/assets/sum\\_os14.pdf](http://www.peter-ostermann.de/assets/sum_os14.pdf) or:

"SUM, Model of a Stationary Background Universe behind our Cosmos"

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