

BOOK REVIEW: EXCLUSIVE TO FSR: *ON A PERDU LA MOITIÉ DE L'UNIVERS (WE'VE "LOST" HALF OF THE UNIVERSE)*, BY JEAN-PIERRE PETIT, Director of Research in the CNRS (French National Council for Scientific Research), stationed at the Observatory at Marseilles)

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REVIEW BY MICHEL GRANGER, Ph.D. (France), FSR CONSULTANT.
(Translation from French. G.C.)

In this, his latest book, the "untypical" investigator Dr. Jean-Pierre Petit, a senior Research Director in the CNRS (French National Council for Scientific Research), reveals a fresh aspect of his talent - as a populariser in one of the most difficult domains of Science, namely *Cosmology*. And, since it is his own professional speciality, he has done an excellent job.

No more talk here from him this time about *magnetohydrodynamics* (the method of propulsion which he says is employed by at least some of the "Aliens", and of which he has become an ardent theoretical proponent, as was shown in one of his earlier UFO books).

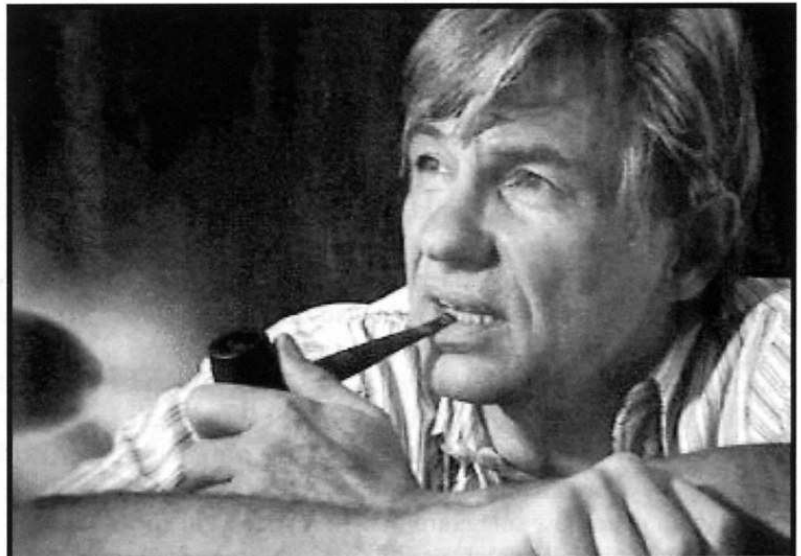
His objective this time, neither more nor less, relates to the discovery by certain top astronomers and physicists that a very large proportion of the Universe as it has existed since the "Big Bang" (*le "Grand Boum"* as we French call it) seems somehow to have "got lost". At any rate nobody can find the "Missing Mass"!

If that great primordial explosion, the "Big Bang", postulated by the Abbé Lemaître as in conformity with Holy Scripture, was indeed at the origin of our Universe, then logically it follows that the light generated by that initial flare-up (FIAT LUX, the creative word of *Genesis*) - travelling at ten times the speed of light today, at one-thousandth of a second, zero time, - *should have generated just as much anti-matter as it has generated of matter*.

Well now - the radioastronomers have never managed to detect the slightest trace of this cosmic anti-matter: and so one half of the Universe is escaping us! To the vast shame and chagrin of the astronomers and physicists - among them J.P. Petit, who confesses that he has milled around frantically over it during the 1970s.

And now, today, instead of dodging the question, as most of his colleagues do, Dr. Petit is going to make another attempt to discover that anti-material treasure-key that would reconcile the cosmological experts with the situation as we observe it. Such is the purpose of his book.

If this missing matter is not detectable by us, maybe that is because it is *indeed invisible*? This aphorism then leads us into the theory of so-called "dark matter", which postulates that there is one entire half of this Universe to



A biography of Jean-Pierre Petit is available on the Internet at:- <http://rr0.org/PetitJeanPierre.html>

which we belong that indeed does exist but is outside of our own observable horizon. But one feels that the author is not frankly attached to it himself, and he does state that the studies aimed at verifying it have proved disappointing.

So clearly he himself is greatly disappointed also, he writes: "If dark matter (*matière sombre*) is a necessary evil, its existence, in whatever form that might be, remains purely and totally *speculative*. Therefore he says, loud and clear, that it is legitimate to search for *an alternative*. As he says, "We must come up with something completely new and original".

So he has revived, and appropriated as his own, the famous concept of "*shadow matter*" (*matière ombre*) of the Soviet scientist Andrei Sakharov. This alternative idea is that the gravitational effects felt in our Universe (as evidenced by the experiments) do suggest that there is indeed a missing part of the Universe. *But this universe, co-existent with us in Time and Space, actually interpenetrates our own Universe and so is here, located everywhere and yet nowhere!*

THERE OR RATHER THERE/HERE (I'm getting in a tangle!) the mean temperature must be of the order of 2,000 degrees Centigrade, which is a lot indeed! *BUT WE, WHO ARE IN IT, WHILE STILL BEING "OUTSIDE" OF IT, DO NOT FEEL ITS HEAT IN THE*

SLIGHTEST. FOR, PARADOXICAL AS IT MAY SEEM, ONLY THE *GRAVITATIONAL* INTERACTIONS ARE PERCEPTIBLE TO US. THE REALITY OF THIS SHADOW-UNIVERSE IS *ENANTIOMORPHOUS* - I.E. *OPPOSITE* - THAT IS TO SAY "A MIRROR OF OURS", AND THE SPEED OF LIGHT THERE IS DIFFERENT FROM WHAT IT IS HERE. AND, ABOVE ALL, THAT SHADOW-UNIVERSE IS *RETROCHRONIC* - THIS IS TO SAY THAT ITS TIME FLOWS IN THE OPPOSITE DIRECTION FROM OURS!

IN THE SPACE OF THAT "ESREVINU" ("Universe" backwards - our "back-slang" would be in fashion there!) - THERE WOULD BE ONLY PROTO-STARS A HUNDRED MILLION LIGHT-YEARS IN DIAMETER, AND ALL RED.

In such an utterly disorientating scenario, Dr. Petit (who is nevertheless a staunch champion of the existence of Extraterrestrials) does not visualize the existence there of any living beings - (if there were they would of course be "Ultraterrestrials".) Such an idea is excluded by him *a priori*, which as I see it would give us nothing very definite, though it has to be said that any such creatures would have had one particularly fine feature owing to the fact that, "over there, the distances are shorter even though they link up points that are identical to ours." Shorter than here! I can easily visualize "elastic UTs" reaching back into the past!

This notion of a SHADOW-UNIVERSE, abstruse as it is, opens up the way not only for dreaming, but it also opens the way for "an absolute abundance of unresolved questions." Such as, for example, the mystery of the gravitational mirages which would constitute precisely such a proof of that SHADOW UNIVERSE. Would the ANISOTROPY (unevenness) of the Universe, due to "geometrical turbulence", also be a sign of the interaction of our Universe with its Shadow-Partner? Maybe Plato and his view of the world would not be too far off the truth. *Our* Universe would be the *shadow* of the other one. And vice-versa; our two worlds - each fitting into the other - would well deserve the appellation of "Phantom Universes".

To sum up, this is a rich book; rich in conjectures that at times are more audacious than the most "far-out" of ufological theories. It is described as "*an enthralling book*" ("un livre passionnant") by the writer of its preface, Professor Jean-Claude Pecker, Honorary Professor in the Collège de France and Member of the French Academy of Sciences. [It is amusing however to see that Pecker takes great care to proclaim his own total disbelief in "Dr. Petit's UFOs!" -G.C.]

DOES THE SHADOW-UNIVERSE THEORY REALLY STEM FROM SAKHAROV, OR WAS IT FROM THE "UMMITES"?

Officially the initial idea of this Shadow Universe, symmetrical in form with the one that we all know since we are living inside it, is supposed to date back to the dissident Soviet scientist Andrei Sakharov. He put it out in 1984 when he was in exile, under house-arrest, but he had in fact already suggested its existence, as early as 1967, as an explanation for the phenomenon known as "violation of parity" (a sort of asymmetry compensated

by the opposite asymmetry of the Shadow-Universe). According to Sakharov, the Shadow Universe could be detected by recording the particles emitted by Black Holes. *Winner of the Nobel Peace Prize in 1975, Sakharov was the first official scientist to suggest that our Universe possesses more dimensions than appears to be the case.*

But - and this is very bizarre - in another of his books, *Enquête Sur Des Extraterrestres Qui Sont Déjà Parmi Nous* (An Enquiry into some Extraterrestrials who are already among us), published by Albin Michel in 1991, Dr. Petit states that he had *not* discovered this theory (which suited him so well) among the writings of Sakharov! He had found it, he said, in the mysterious letters that he had received from the "UMMITES", - who had also been the source of the information that the propulsion of their own craft was by magnetohydrodynamics. And he wrote: "Wouldn't it have been just a bit too much to imagine that Sakharov could have been involved in a contact with an extraterrestrial civilization, even were it by a mere letter?"

Indeed - *had* Sakharov himself ever seen or read the Ummite messages? The answer to that is "*impossible now to say*"! BUT IN ONE OF THE UMMITE MESSAGES IT IS ACTUALLY STATED THAT THERE WAS A GROUP OF SOVIET RUSSIAN SCIENTISTS TO WHOM THE UMMITES HAD SENT A COMMUNICATION, AND THAT ONE OF THOSE SOVIET SCIENTISTS HAD WRITTEN IT UP AND HAD PUBLISHED IT IN HIS OWN NAME! SO THIS SEEMS CLEARLY TO POINT TO SAKHAROV.

So - *is this missing half of the Universe the universe of the Ummites?* I can only say that this is the conclusion at which I, Michel Granger, a mere chemist by profession, have arrived - I who find it just as hard to understand what the physicists are saying as I find it hard to believe the "Contactees". M.G.

NOTE BY EDITOR OF FSR.

As readers may recall, Andrei Sakharov was the "father of the Russian A-bomb".

This is the bibliography which is given on pages 177/178 of Dr. Petit's book:

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11.J.N. Bahcall, A. Flynn, and A. Gould, *APJ*, 389, p. 234, 1992.

A FURTHER NOTE BY EDITOR.

Another interesting candidate for missing matter is so-called "mirror matter", postulated by Robert Foot of the

University of Melbourne (*New Scientist*, 28 July 2001, page 17). He suggests that this exotic material could have been responsible for the infamous Tunguska explosion of 1908, and that if so thousands of tons of this stuff could still lie buried not far below the surface at the site in the Siberian forest. An impact made by a body made of mirror matter would leave no crater or obvious debris. Although the interaction between mirror matter and ordinary matter would be primarily gravitational, and otherwise slight, he speculates that it might be enough to account for the explosion, and that this mirror matter could have been stopped by the Earth, and still be there buried below the surface.■

UFO COVER-UP BY MUSSOLINI! NEW DOCUMENTS "WILL REVOLUTIONIZE UFOLOGY" © BY ALFREDO LISSONI.

Translation from Italian. G.C. April 9, 2001 (*Il Giornale dei Misteri*, No. 353, March 2001)

THE DISCOVERY OF SOME DOCUMENTS FROM THE FASCIST ERA OF ITALY OPENS UP NEW HORIZONS FOR RESEARCH ON UFOS, AND COMPELS STUDENTS OF THIS SUBJECT TO AMEND THE OFFICIAL HISTORY OF THE FLYING SAUCERS. UNDER "IL DUCE", MUSSOLINI, THERE WAS A SECRET GOVERNMENT COMMISSION OF ENQUIRY, KNOWN AS THE RS/33 CABINET, WHICH STUDIED THE UFOS.

The story of the newly discovered "Italian Fascist UFO files" had its start in 1996, when an anonymous person (whom we shall call "MR. X") began sending, to various central and local organizations, documents - both originals and photostats - relating to a series of UFO sightings which had occurred over Italy during the 1930s and 1940s. The communications, which had emanated from various regions in Italy, and even in France, were all rigorously anonymous and unsigned.

One of the first packages was addressed to the Bologna daily newspaper *Il Resto del Carlino*, and contained a bulky dossier of 34 photocopied pages covering various UFO sightings in the regions of Italy between 1933 and 1940 - some of them in fact reports from the Royal Italian Air Force, with the recommendation "SAY NOTHING TO IL DUCE"!

One of the newspaper's editors, thinking it was all a joke, assigned a reporter to conduct an enquiry in quarters that were involved with secret prototypes (domestic) but the results were nil, and so the material was never published, and ended up in the waste-paper basket.

Then a second series of missives, in three different packages, posted in March-April 1996, were sent by "MR. X" to the top Italian ufologist Dr. Roberto Pinotti, Director of the Italian UFO research journal *NOTIZIARIO UFO* (and long-term FSR Consultant !)

These three packages contained original materials which were examined in 1999 by the chemist Antonio

Garavaglia from Como, and were assessed by him as being authentic and datable to 1936. These were papers and documents, and included an envelope marked "for the hands of Ciano". (Ciano, son-in-law of Mussolini, was the Foreign Minister of Italy). There was also a memorandum about a meeting of a new thing called the "RS/33 CABINET", plus a long letter about "the sighting of a flying cigar over the regions of Venice and Mestre on the morning of August 17, 1936".

This incident was graphically reconstructed on two pages, showing a "cigar" - described as "torpedo-shaped" - along with two spheres beside it, one of which resembled the planet Saturn, being pursued by a fighter aircraft. It was an *original document* - not a copy - about a UFO sighting *ante litteram* - LONG BEFORE THE SUBJECT OF UFOS EXISTED! (More than ten years before Kenneth Arnold. G.C.)

The Italian National UFO Centre (C.U.N., Centro Ufologico Nazionale), whose Secretary-General (Pinotti) had been the recipient of the material, decided to file it away for the time being until a deeper analysis, or fresh evidence, might be able to establish its authenticity. A long time passed. In particular the search for the eyewitnesses of the episode was fruitless. The document had indicated *three names*, all of which were now untraceable. Then finally a C.U.N. member managed to secure the testimony of a relative, FAUSTINO V - (unfortunately deceased shortly afterwards), but who had confirmed that he had been present and had seen the incredible thing flying over Venice.

And this story and the material continued right up until the end of 1999, when "MR. X", seeing that his own efforts were definitely being ignored and nothing was appearing in the press, turned his attention to the "Contactee" UFO journal *UFO, LA VISITA EXTRATERRESTRE*, published by the famous stigmatist Giorgio Bongiovanni. "MR. X" sent to Bongiovanni further material which made it permissible to arrive at a