RELIGION AND THE QUESTION:

WHAT HAPPENS, IF WE MEET SOMEBODY OUT THERE?



Università dell'Insubria



HUMANS IN OUTER SPACE INTERDISCIPLINARY ODYSSEYS



Vienna, 11 - 12 October 2007

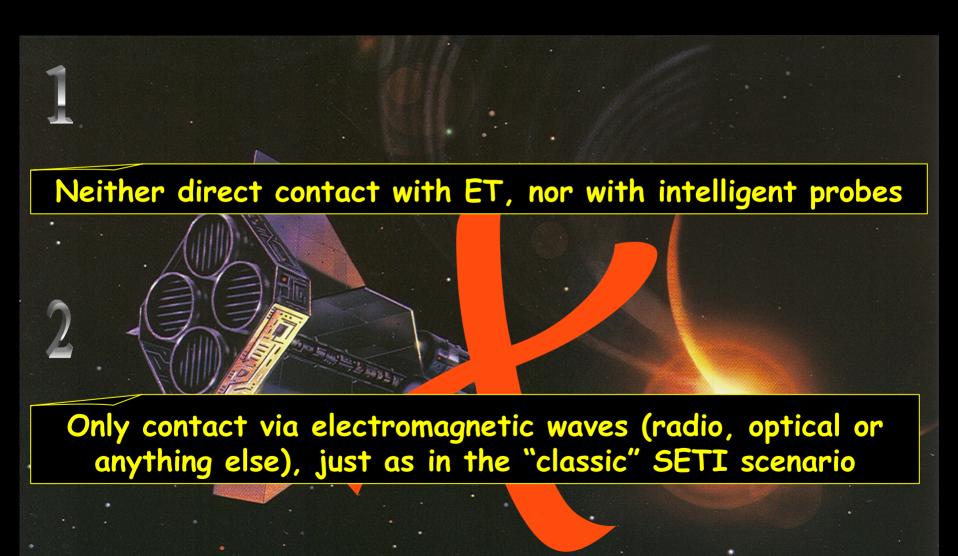
Prof. PAOLO MUSSO

musso.pl@libero.it



NO INTERSTELLAR TRAVEL ...





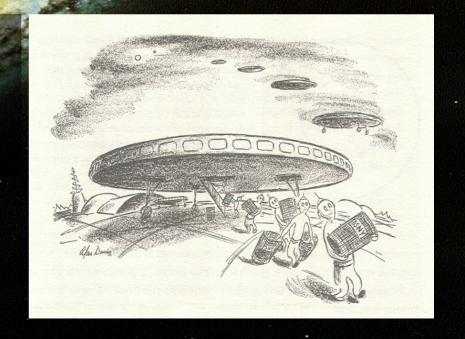


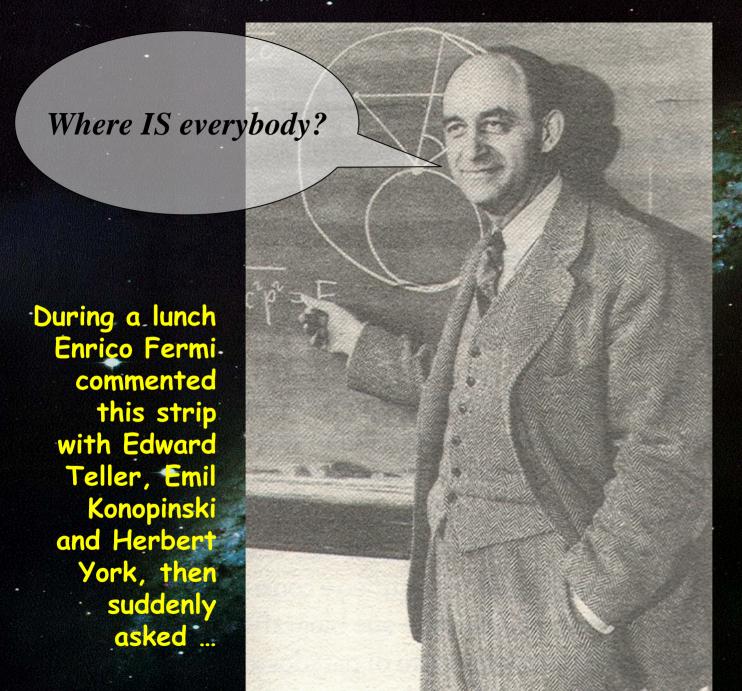
THE FERMI PARADOX

In 1950 many garbage baskets had disappeared mysteriously in New York ...

... and many flying saucers had been seen in the USA

So, this was the explanation, according to Alan Dunn (The New Yorker, 20-05-1950)











THE MEANING OF THE PARADOX

Since ETs (if they exist) are VERY likely MUCH older than us ...

... and since if interstellar travels are possible it should be also possible to colonize the whole Galaxy in a VERY short time (at the cosmic scale) ...

... then ETs should already be here, but it seems that it is not the case

MAKING THE PARADOX EXPLICIT

a) ETs do exist

b) ETs are not here

c) Interstellar travels are possible

Each hypothesis can well be true, but they cannot be all true at the same time

THEREFORE

If we do NOT believe in UFOs...

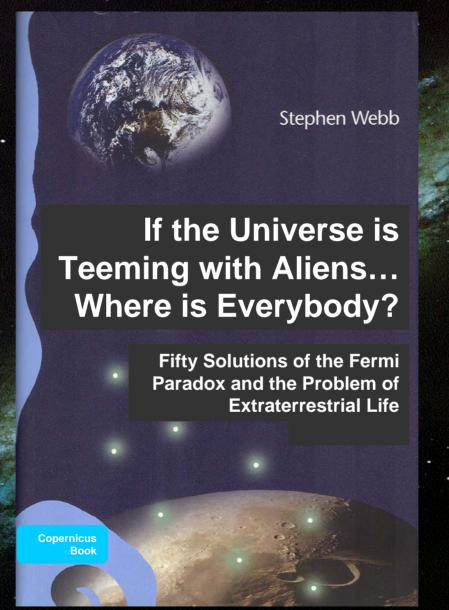
... then we have to conclude that:



1) either ETs do not exist ...

2) ... or interstellar travels are impossible

A very careful analysis of the Fermi Paradox was provided in 2002 by ...



... taking in considerations 50 different possible solutions, and showing that it is VERY difficult to avoid such a conclusion. Another analysis of the Paradox can be find in ...

WHAT THE FERMI PARADOX TELLS US ABOUT THE DANGERS OF ACTIVE SETI



PAOLO MUSSO

University of Insubria - Varese - Italia UCSS - Lima - Perú



7th INTERNATIONAL ASTRONAUTICAL CONGRESS

IAA 35th Symposium on The Search for Extra-Terrestrial Intelligence (SETI)

The Next Steps

Valencia, Spain, 4 - 8 October 2006

musso.pl@libero.it

METHODOLOGICAL ASSUMPTIONS

After some general remarks, I'll discuss here ONLY the problems related with our Western religious tradition, that is the Christian one...

...and this for three good reasons:

- 1) it would not be correct to speak in name of other people
- 2) at present SETI is being done only in Western countries, which have a Christian background
- 3) Christianity is usually thought of as the most anthropocentric religion





ARE WE ALONE?



If we achie the answ.

NO!

Ok, great!
And then?



DIFFERENT, BUT INTELLIGIBLE

ETs may have VERY DIFFERENT VALUES, both ethical and religious, but nonetheless they SHOULD UNDERSTAND ours. Indeed ...

To be intelligent beings MEANS to be moral beings, since it NECESSARILY implies:

To be able to IMAGINE DIFFERENT POSSIBLE FUTURES

To be able to CHOOSE among them rationally

UNAVOIDABLY MORAL

But this is all we need to be also moral beings!

Indeed, a moral choice is nothing but a rational choice having consequences for the others

Thus, intelligent beings are also UNAVOIDABLY moral (or immoral) beings (immorality being still a moral attitude)

Morality is a CONSTITUTIVE DIMENSION of reason

UNAVOIDABLY METAPHYSICAL

ETs should be able to understand our religious values, too.

Metaphysics, indeed (i.e. the rational discussion about God) is
essentially based on:

The problem of the First Cause of the world

The problem of the ultimate ground of ethics

Thus, beings both scientific and moral (as ETs) are also UNAVOIDABLY metaphysical (or anti-metaphysical) beings (to be anti-metaphysical being still a metaphysical attitude)

Metaphysics is a CONSTITUTIVE DIMENSION of reason (also called "the Religious Sense")

HOWEVER PLEASE DON'T FORGET THAT...

ADVANCEMENT =/= MORALITY

To be more ADVANCED does NOT imply to be more MORAL

1) Any modern dictatorship (as Nazi German, Soviet Union and so on) is much more advanced than any ancient society, but SURELY much LESS moral than most of them

2) Cooperation may arise also from non-ethical reasons, for example from an intelligent, well-planned egoism, or from the fear of a global catastrophe or self-destruction

ADVANCEMENT =/= INTELLIGENCE

To be more ADVANCED does NOT imply EVEN to be more INTELLIGENT

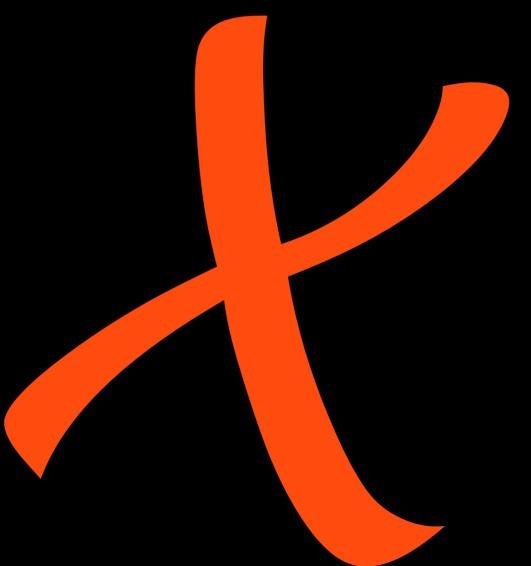
1) It would be simply an evolutionistic non-sense thinking that our intelligence could have increased significantly, not only from Galileo, but even from the Neolithic until now (not time enough)

2) Any child coming from a tribe still living in the Neolithic (as, say, Australian or Amazon aboriginals), if going to a modern school, has the same chance than every other to become a good scientist

3) Scientific progress is essentially a matter of ACCUMULATION: "We are dwarfs on the shoulders of giants"



ASE

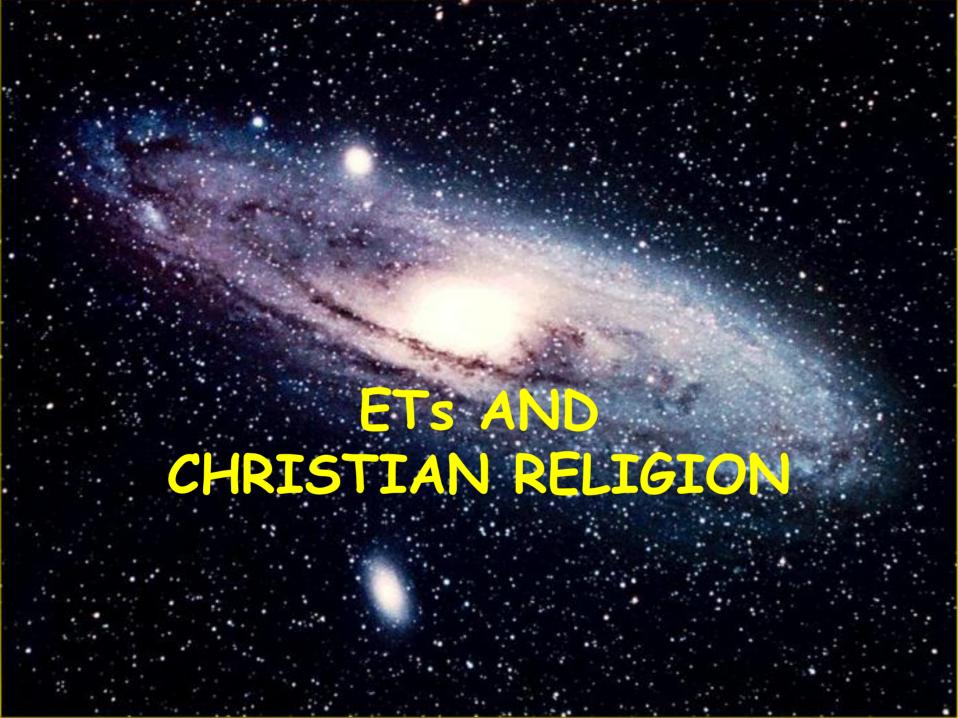


A DIALOGUE, NOT A TEACHING

ETs' moral and metaphysical beliefs
(and also their traditional or revealed religions, if any)
should be examined very carefully
BUT...

- 1) They should not be considered a priori "better" than ours
- 2) They should be submitted to a rational discussion, just as it happens (or *should* happen) on Earth every day with ours

3) We should feel free to send them OUR beliefs, too, without any "inferiority complex": they would be our partners in a dialogue, not our teachers!



SOME OVERVIEWS

Vakoch D. [2000]
Catholic View of Extraterrestrial Intelligence
in Tough A. (ed.), When SETI Succeeds: The Impact of
High-Information Contact, Washington, pp. 165-174

Tanzella-Nitti G. [2002], Extraterrestre, vita in Strumia A., Tanzella-Nitti G. (eds.), Dizionario interdisciplinare di scienza e fede, Vatican City

Musso P., Ascheri V. [2002],

Kosmische Missionare?
in Wabbel T.D. (ed.), S.E.T.I. - die Suche nach dem

Ausserirdischen, München, pp. 170-184

ABOUT THE PLURALITY OF WORLDS



Not even in the case of Giordano Bruno (who was condemned for other reasons, but NOT for this doctrine)

ON THE CONTRARY...

In 1277 Stephan Tempier, Archbishop of Paris, condemned as heretical JUST THE OPPOSITE proposition, maintained by Averroists: "Quod Prima Causa non posset plura munda facere"



There has been NO SYSTEMATICAL THEOLOGICAL DISCUSSIONS until today, and NO OFFICIAL STATEMENTS by the Catholic Church

MOST OF THEOLOGIANS who have discussed the topic are IN FAVOUR, but they are VERY FEW

THREE POPES have talked, briefly and informally, about this, one against (Zaccaria I), TWO IN FAVOUR (Pio XII, Giovanni XXIII)

The most common position is to wait and see



HOW DRAMATIC?

ET's EXISTENCE is, in itself, FULLY COMPATIBLE with Christian faith, and, as a matter of fact, many Christian people already believe in ETs' existence

So, at least in the short period, NO DRAMATIC CHANGE (panic, revolutions, loss of authority) should be expected

300 m ANTENNA 1 Hz BANDWIDTH

A more difficult issue might be to establish the right place of ET in the HISTORY OF SALVATION, due to the unique role of Jesus Christ in it (Christocentrism, not anthropocentrism)

FRE

Without a convincing solution of this issue, problems may arise in the LONG period, also because ...

A NOT-SO-OBVIOUS IMPLICATION

IF THE CONTACT IS ACHIEVED IN THE "NEXT" FUTURE ...



So, not only we would not be alone...



...but intelligent life would be VERY common

IN FACT

... if intelligent life were a very rare phenomenon, then ...

Allen Telescope Array

... the probability of two so close, independent origins would be practically zero

A PROBLEM AND SOME SOLUTIONS

This would mean that VERY likely there are many civilizations that will never hear of Jesus Christ

A possible solution proposed by some theologians is that there Incarnation may occur many time (one for each civilization)

2

A second possible solution is that ETs could not be affected by the original sin, so they do not need to be saved

3

But it is also possible a most "conservative" solution

"THE KINGDOM IS LIKE A SEED..."

According to Christian religion, God's "method" seems to be that of choosing a small group of people, working like a "SEED"

Even though this "seed" must grow up also during the history, the full developed "tree" will never be visible in this world, but only in the other, at the end of the times

Indeed, even on Earth most of the intelligent beings who have lived here have never heard of Jesus, but nonetheless He died for all

So, the same could hold also for ET, and neither a direct contact nor even a communication of the Gospel may be necessary

AFTER ALL...



AND TO FINISH LET ME SAY...

...to all of you to all of you...