

BETWEEN TWO LIGHTS

Michel Cassé – I dare to draw an analogy between Plato and antimatter, or more exactly between the androgyny, which is presented by Aristophanes in Plato's Banquet and the antagonistic and mutually assassin couple, matter and antimatter. Far from me the idea that Plato invented the quantum theory of fields. However the geometric atoms of Plato are remarkable: when he says that Nature is made of triangles and that the numbers of triangles of a certain kind are conserved, it's very impressive, as for us it's the quantum numbers that are conserved. So Plato had a great intuition but not in the Banquet, it was in Timeous. So Plato, in the Banquet, develops roughly a myth of the origin and the evolution of love. Aristophanes speaks about the Platonic Androgynous myth where the beings were born double with the two polarities, male and female, they were complete. Zeus, the king of the gods, took offence. He asked Ares, god of war, to cut them in two. This was done, maybe bloodlessly, they were separated. The two halves wanted desperately to gather and this desire of completeness, neutrality and annihilation is what we call love. And when they met, it was ecstasy and a kind of illumination. *[They resumed the first state of perfection.]*

The analogy which I am tempted to propose is the creation of matter and antimatter by light, *[or more exactly radiation of the gamma kind (high energy), or pure energy (like at CERN)]* or pure energy. Light is a neutral kind of matter, no mass *[at rest, but it is never at rest]* nor electric charge, with a 0 sign, but 0 is the sum of plus and minus. If, conventionally, matter is + and antimatter -, both are born from 0 but meeting somewhere, at a given moment, they return to 0 by annihilating. Thus matter stands between two lights, the one at the beginning and the one at the end. If you meet your anti yourself you both will disappear into *[invisible]* light, a most desirable end. This was a message from the Platonic Heaven, from the backworld... *[But there is very little chance, according to the ambient theory, because antimatter, before the first second, apparently has been killed, and a tiny bit of her is created afterwards. To conclude, there is genesis in our beautiful cosmology but also murder.]*

3 minutes