

## **Objectivity on Quantum Events: the Principle of Complementarity and the Rortian perspective**

On this paper, I will try to reinterpret some notions implied by the Principle of Complementarity from the Rorty's perspective about cognitive objects. First I will outline the general epistemological analysis made by Richard Rorty's neopragmatism. This analysis emphasizes his critics on what he considers the main modern cognitive assumptions. Then, I will focus my analysis on the concept of inter-subjectivity instead of the objectivity one that supports the rortian perspective. I will try to compare the cognitive assumptions and implications on both of them.

Next, I will try to review the duality of matter and radiation from the Principle of Complementarity's interpretation. I will stress the objectivity redefinition made by Bohr due to the necessary link between measuring device and object. Then, I will try to relate in a positive and in a negative sense this redefinition with the rortian proposal. Specifically, I will try to review if the Bohr's characterization of this concept implies in some sense the rortian inter-subjectivity conception and which consequences this implication may have.

I think that if this relation results plausible and coherent then it could support some thesis that Rorty suggests to avoid some distinctions (that he calls metaphysical) between cognitive and non cognitive objects. In addition, I will try to show some of the consequences of these rortian ideas in the interpretation of scientific speech and some advantages that I found on it. I suggest that, in a sense, this perspective avoids some difficulties about the quantum speech that are supported in old metaphysical ideas about the cognitive objects

