Title:

"On some points of homological algebra".

Abstract:

I am going to take up some of the key ideas that emerge from this powerful and synthetic text by Grothendieck dated 1957, the concepts that he invents (that of the derivative functor in particular), that he synthesizes and which will be reinvested in the rest of his work. In particular, it sets up a complete process for generating spectral sequences. I will give elements on the cohomological study (chapter V) of spaces with operators. I will endeavor to bring out the philosophical interest of these concepts, which are nevertheless so technical.