

# The double structure for arbitrary modules and schemes

Thiago Filipe da Silva<sup>1</sup>

<sup>1</sup> Universidade Federal do Espírito Santo

Recently we use the double structure of a sheaf of modules over  $\mathcal{O}_X$  to investigate the Lipschitz behavior of a family of complex analytic spaces  $X$  in some works with T. Gaffney. One question arises: can we define this structure in a purely algebraic way? In this talk, I hope to convince people that we can do it and to recover some results proved in the analytic framework.