Cyclic Theory for Multiplier Hopf Algebras

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In this work we define the Hopf cyclic homology and cohomology for Multiplier Hopf algebras.Also we give a definition to modular pair in involution in Multiplier Hopf algebras and construct a presimplicial module for multiplier Hopf algebras as a non-unital algebra. Also, we define cyclic module for Multiplier Hopf algebras associated to a modular pair in involution.