

THE IGUSA-TODOROV FUNCTION ON COMODULES

MARIANA HAIM

ABSTRACT. We will define an Igusa-Todorov-function φ for finitely generated comodules and a notion of left (and right) φ -dimension of a coalgebra C . We will show that, in the semiperfect case, the left (right) φ -dimension of C is 0 if and only if C is left (right) qcF. We will use this equivalence to deduce some properties of qcF coalgebras.

This is a joint work with Marcelo Lanzilotta and Gustavo Mata (UdelaR, Uruguay).

E-mail address: Marianahaim@gmail.com

UNIVERSIDAD DE LA REPÚBLICA, URUGUAY