## **GORDANA TODOROV**, Northeastern University, Boston, Massachusetts, USA m-cluster categories and m-replicated algebras

Let A be a hereditary algebra over an algebraically closed field. We prove that an exact fundamental domain for the m-cluster category of A is the m-left part of the m-replicated algebra  $A^{(m)}$  of A. Moreover, we obtain a one-to-one correspondence between the tilting objects in the m-cluster category (that is, the m-clusters) and those tilting  $A^{(m)}$ -modules for which all non projective-injective direct summands lie in the m-left part of  $A^{(m)}$ .

Joint work with I. Assem, T. Brüstle and R. Schiffler.