

**The congruence subgroup problem for a family of branch groups**

**Rachel Skipper**  
Binghamton University

24/08/18  
Sexta-feira  
14:30 Horas

Auditório do MAT

**Abstract.** A group,  $G$ , acting on a regular rooted tree has the congruence subgroup property (CSP) if every subgroup of finite index contains the stabilizer of a level of the tree. When the subgroup structure of  $G$  resembles that of the full automorphism group of the tree, additional tools are available for determining if  $G$  has the CSP.

In this talk, we look at the Hanoi towers group which fails to have the CSP in a particular way. Then we will generalize this construction to a new family of groups and discuss the CSP for them.