



**CSGT 2014, June 9–13 2014, Teplice nad Bečvou**

49th Czech-Slovak Conference on Graph Theory 2014

Department of Applied Mathematics

VŠB – Technical University Ostrava, 17. listopadu 15, Ostrava–Poruba

---

## GENERALIZED CAGES

ROBERT JAJCAY

The notoriously hard Cage Problem - the problem of finding graphs of the smallest order for given degree and girth - has inspired a number of generalizations. After a (very) brief review of the status of the Cage Problem, we will present an overview of some of these generalizations, and will devote the second half of the talk to the case of biregular cages - cages in which we allow for two degrees instead of one. The construction techniques presented in the talk are mostly graph theoretical. One of the most interesting aspects of studying a closely related concept is the fundamental question of how much can one learn by this kind of loosening of the conditions with regard to the original problem.