## THAIS BARDINI IDALINO, Universidade Federal de Santa Catarina

Variable cover-free families

Cover-free families have been investigated under different names and as a solution to many problems related to combinatorial group testing. In this presentation, we will review some related objects and constructions found in the literature, as well as some applications in cryptography. Inspired by these applications, we introduce the notion of *variable cover-free families*, which presents variable coverage properties.

This is joint work with Lucia Moura.