KURT GÖDEL RESEARCH CENTER FOR MATHEMATICAL LOGIC

UNIVERSITÄT WIEN

1090 WIEN, WÄHRINGER STRASSE 25

INVITATION TO THE PUBLIC DEFENSE OF THE MASTER'S THESIS

ÖMER BAG

# METHODS OF ITERATION AND APPLICATIONS

Abstract:

In this talk, we will consider three different methods of forcing iterations and their effect on some of the classical cardinal invariants. We first show along a linear iteration how to increase $\mathfrak{b}$, while keeping $\mathfrak{s}$ small by preserving eventually narrow sequences. For the second present matrix iterations and their use in forcing $\mathfrak{u} < \mathfrak{d}$ and $\mathfrak{a} = \mathfrak{b} < \mathfrak{s}$. Finally we show how to control the generalized invariants $\mathfrak{b}(\kappa), \mathfrak{d}(\kappa)$ and $\mathfrak{c}(\kappa)$ at the same time using non-linear iteration.

**MONDAY, OCTOBER 15, 2018**
Talk at 9:00am in the KGRC lecture room (room 101)
GÖDEL RESEARCH CENTER
JOSEPHINUM, 1090 WIEN, WÄHRINGER STRASSE 25