KURT GÖDEL RESEARCH CENTER FOR MATHEMATICAL LOGIC

UNIVERSITÄT WIEN

1090 WIEN, WÄHRINGER STRASSE 25

O.UNIV.-PROF. DR. SY-DAVID FRIEDMAN

INVITATION

DIEGO ALEJANDRO MEJÍA GUZMÁN
(TU Wien)

SEPARATING THE LEFT SIDE OF CICHON'S DIAGRAM

Abstract:

It is well known that, with finite support iterations of ccc posets, we can obtain models where 3 or more cardinals of Cichon's diagram can be separated. For example, concerning the left side of Cichon's diagarm, it is consistent that $\aleph_1 < add(N) < cov(N) < b < non(M) = cov(M) = c$. Nevertheless, getting the additional strict inequality $non(M) < cov(M)$ is a challenge because subposets of E, the standard ccc poset that adds an eventually different real, may add dominating reals (by Pawlikowski, 1992).

We construct a model of $\aleph_1 < add(N) < cov(N) < b < non(M) < cov(M) = c$ with the help of chains of ultrafilters that allows to preserve certain unbounded families.

This is a joint work with M. Goldstern and S. Shelah.

THURSDAY, NOVEMBER 5, 2015
Tea at 3:30 p.m. in the meeting room (room 104)
Talk at 4:00 p.m. in the seminar room (room 101)
GÖDEL RESEARCH CENTER
JOSEPHINUM, 1090 WIEN, WÄHRINGER STRASSE 25

o.Univ.-Prof. Dr. Sy-David Friedman