



# KURT GÖDEL RESEARCH CENTER FOR MATHEMATICAL LOGIC

UNIVERSITÄT WIEN

1090 WIEN, WÄHRINGER STRASSE 25

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



## INVITATION

**DAVID SCHRITTESSER**  
(University of Copenhagen, Denmark)

## NEWS ON MAD FAMILIES

### Abstract:

This talk is about two results on mad families (dating from this year): Firstly, in joint work with Karen Bakke Haga and Asger Törnquist, we link madness of certain definable sets to forcing and use this to show that under the Axiom of Projective Determinacy there are no projective mad families. Moreover, the results generalize: we may replace "being almost disjoint" by "being J-disjoint", for certain ideals J on the natural numbers including, e.g.,  $\text{Fin} \times \text{Fin}$ . The other result is an improvement of Horowitz and Shelah's construction of a Borel maximal eventually different family of functions. We obtain a closed such family, and the result even generalizes to certain compact spaces. comment|=== Time and Place ===

Tea at 3:30pm in the KGRC [[floor plan|meeting room]]

Talk at 4:00pm in the KGRC [[floor plan|lecture room]]

**THURSDAY, JUNE 22, 2017**

Tea at 3:30pm in the KGRC meeting room (room 104)

Talk at 4:00pm in the KGRC lecture room (room 101)

GÖDEL RESEARCH CENTER

JOSEPHINUM, 1090 WIEN, WÄHRINGER STRASSE 25



[http://www.logic.univie.ac.at/  
Research\\_seminar.html](http://www.logic.univie.ac.at/Research_seminar.html)

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