

## RESUME

**Name:** Jindřich Zapletal

**Address 1:** Dept. of Math., University of Florida, Gainesville FL 32611, USA

**Address 2:** MÚ AV ČR, Žitná 25, 11567 Praha 1, Czech Republic

**E-mail address:** zapletal at math.cas.cz, zapletal at math.ufl.edu

### Areas of specialization

Mathematical logic, set theory

### Education

DSc. in Mathematics, Czech Academy of Sciences 2007

Ph. D. in Mathematics, The Pennsylvania State Univ. 1995, supervisor T. Jech

M. A. in Mathematics, Charles University, Prague 1994

B. A. in Mathematics, Charles University, Prague 1990

### Employment

2009-present professor, University of Florida

2009-present Purkyně Fellow, Academy of Sciences, Czech Republic

2005-2009 associate professor, University of Florida

2000-2005 assistant professor, University of Florida

1998-2000 John Wesley Young instructor, Dartmouth College

1996-1998 Bateman research instructor, California Institute of Technology

1995-1996 postdoctoral fellow, Math. Sciences Research Institute Berkeley

1990-1995 teaching assistant, The Pennsylvania State University

### Publications

Canonical Ramsey theory on Polish spaces, with Marcin Sabok and Vladimir Kanovei, a book accepted to Cambridge University Press

Pinned equivalence relations, *Mathematical Research Letters* 18 (2011) 559-564

More ideals with the Komjath-Laczkovich property, *Topology and Its Applications* 158 (2011) 1149-1156

Forcing properties of ideals of closed sets, with Marcin Sabok, accepted to *J. Symbolic Logic*

Ramsey theorem for product of finite sets with submeasures, with Saharon Shelah, *Combinatorica* 31 (2011) 225-244

On the existence of a sigma-closed dense subset, *Comment.Math.Univ.Carolin.* 51,3 (2010) 513-517

Applications of the ergodic iteration theorem. *Math. Log. Q.* 56 (2010), no. 2, 116-125

Regular embeddings of the stationary tower and Woodin's Sigma Two Two maximality theorem, with Richard Ketchersid and Paul Larson, *J. Symbolic Logic* 75 (2010), no. 2, 711-727  
 Preserving  $PP$ -points in definable forcing. *Fund. Math.* 204 (2009), no. 2, 145-154  
 Increasing  $\delta_2^1$  by a Namba-style forcing, with Richard Ketchersid and Paul Larson, *J. Symbolic Logic* 72 (2007), 1372-1378  
 On the structure of stationary sets, with Qi Feng and Thomas Jech, *Sci. China Ser. A* 50 (2007) 615-627  
 Forcing with quotients, with Michael Hrušák, *Archive Math. Logic* 47 (2008), 719-739  
 Forcing idealized, *Cambridge Tracts in Mathematics*, Cambridge University Press 2008, ISBN 9780521874267  
 Proper forcing and rectangular Ramsey theorems, *Israel J. Math.* 152 (2006), 29-47  
 Between Maharam's and von Neumann's problem, with Ilijas Farah, *Math. Research Letters* 11 (2004), 673-684  
 Four and more, *Ann. Pure Appl. Logic*, with Ilijas Farah, *Ann. Pure Appl. Logic* 140 (2006), 3-39  
 Descriptive set theory and definable forcing, *Memoirs Amer. Math. Soc.* 793 (2004)  
 Games with creatures, with S. Shelah, *Comm. Math. Univ. Carolinae* 44 (2003), 9-23  
 Duality and the PCF theory, with S. Shelah, *Math. Research Letters* 9 (2002), 585-595  
 Forcing with ideals of closed sets, *Comm. Math. Univ. Carolinae* 43,1 (2002), 181-188  
 Isolating cardinal invariants, *J. Math. Logic*, 2003, 143-162  
 Terminal notions in set theory, *Ann. Pure Appl. Logic* 109 (2001), 89-116  
 Transfinite open games, *Topology and Its Applications* 111 (2001), 289-297  
 Killing ideals and adding reals, *J. Symbolic Logic* 65 (2000), 747-755  
 The nonstationary ideal and the other sigma ideals on omega one, *Trans. Amer. Math. Soc.* 352 (2000), 3981-3993  
 Terminal notions, *Bull. Symbolic Logic* 5 (1999), 470-484  
 On the Alaoglu-Birkhoff equivalence of posets, with S. Todorcevic, *Illinois J. Math.* 43 (1999), 281-292  
 Canonical models for aleph one combinatorics, with S. Shelah, *Ann. Pure Appl. Logic* 98 (1999), 217-259  
 Proper forcing and absoluteness in  $L(R)$ , with I. Neeman, *Comm. Math. Univ. Carolinae* 39 (1998), 281-301  
 A dichotomy for forcing notions, *Math. Res. Lett.* 5 (1998) 213-226  
 Preserving sigma-ideals, *J. Symbolic Logic* 63 (1998), 1437-1441  
 Keeping additivity of the null ideal small, *Proc. Amer. Math. Soc.* 125 (1997), 2443-2451  
 Embeddings of Cohen algebras, with S. Shelah, *Adv. Math.* 126 (1997), 93-119

Semi-Cohen boolean algebras, with B. Balcar and T. Jech, *Ann. Pure Appl. Logic* 87 (1997), 187–208  
 Strongly almost disjoint functions, *Israel J. Math.* 97 (1997), 101–111  
 Small forcings and Cohen reals, *J. Symbolic Logic* 62 (1997), 280–284  
 Splitting number at uncountable cardinals, *J. Symbolic Logic* 62 (1997), 35–42  
 A classification of definable partial orders on omega one, *Fund. Math.* 153 (1997), 141–144  
 Characterization of the club forcing, in *Papers on General Topology and Applications*, S. Andima, R. Flagg, G. Itzkowitz, Y. Kong, R. Kopperman and P. Misra, eds., *Annals of the New York Academy of Sciences* 806 (1996), 476–484  
 A new proof of Kunen inconsistency, *Proc. Amer. Math. Soc.* 124 (1996), 2203–2205  
 More on the cut and choose game, *Ann. Pure Appl. Logic* 76 (1995), 291–301

### **Grants**

2010/2011 AIP project MEB051006, cooperation between Academy of Sciences, Czech Republic, and University of Wrocław, CZK132000  
 2009/2010 AIP project MEB060909, cooperation between Academy of Sciences, Czech Republic, and Kurt Goedel Center in Vienna, CZK126000  
 2009-present Purkyně fellowship, Czech Academy of Sciences  
 2009-present grant IAA100190902 of Grant Agency of the Academy of Sciences of the Czech Republic  
 2008-present NSF grant DMS 0801114, \$110000  
 2006-2007 NSF grant DMS 0532644 (PI) to organize special year in logic at UF, \$138000  
 2003-2006 grant GA ĀR 201-03-0933 of the Grant Agency of Czech Republic  
 2003-2006 NSF grant DMS 0335481 to organize an annual logic conference at UF, \$15000  
 2003-2006 NSF grant DMS 0300201 \$103827  
 2000-2003 NSF grant DMS 0071437, \$61431  
 2000-2003 grant GA ĀR 201-00-1466 of the Grant Agency of Czech Republic  
 1997-2000 grant GA ĀR 201-97-0216 of the Grant Agency of Czech Republic

### **Selected lectures at meetings**

January 2011 Oberwolfach set theory meeting  
 January 2008 Oberwolfach set theory meeting  
 October 2007 Special session, AMS regional meeting, Rutgers  
 July 2007 First European Set Theory Meeting, Bedlewo, Poland  
 October 2006 Luminy set theory meeting  
 August 2005 Logic Colloquium, Athens, plenary lecture  
 March 2004 Midrasha Mathematicae, Jerusalem, a three lecture tutorial

### **University Governance and Service**

2007-8 Colloquium committee, Visitors and conferences committee  
 2006-7 Postdoc search committee (chair), Visitors and conferences committee  
 2005-6 Postdoc search committee (chair), Visitors and conferences committee

2004-5 Group proposals committee, Visitors and conferences committee  
2002-3 Visitors and conferences committee  
2001-2 Visitors and conferences committee

#### **Refereeing activities**

Referee: Advances in Mathematics, Annals of Pure and Applied Logic, Journal of Symbolic Logic, Fundamenta Mathematica, Order, Proceedings of American Mathematical Society, University Lecture Series of AMS

Reviewer: DMS NSF, 1999, Israel Science Foundation 2004, United States-Israel Binational Science Foundation 2006, Wissenschaftfonds (Austrian scientific foundation), 2008

Panelist: DMS NSF

#### **Honors**

2009 Purkyně Fellowship, Academy of Sciences, Czech Republic

2001 CLAS research award of University of Florida

1995 Pritchard dissertation fellowship, The Pennsylvania State University

#### **Conferences Organized**

Winter school in theory 2011 and 2012, Hejnice, Czech Republic, program committee

events of the Special year in Logic 2006-7 at UF, including 6 major meetings and hundreds of guests

South East Logic Symposium, University of Florida, March 2001, 2003, 2004, 2006, 2008

#### **Extended Visits**

June 2004 Universidad Nacional Autonoma de Mexico, Morelia, Mexico

November-December 2003 York University, Toronto

September-November 2003 CRM, Universita Autonoma Barcelona

July 2003 National University of Singapore

June 2003 Kobe University, Kobe, Japan

May 2003 California Institute of Technology

July-August 2002 Academia Sinica, Beijing

June 2002 Universite Paris VII, and IHES

April-May 2002 International Graduate School, Friedrich-Wilhelms Universität Bonn

February-March 2002 Hebrew University, Jerusalem