



# MODERN METHODS

January 24 – February 25, 2005

# *in* RAMSEY THEORY

*All lectures are held in S5 unless noted otherwise*

<b>Mo, Jan 24</b>	<b>9-12</b> MODERN METHODS IN RAMSEY THEORY <i>E. Friedgut</i>	<b>14-17</b> EXERCISES <i>M. Schacht, Z. Dvořák</i>
<b>Tu, Jan 25</b>	<b>9-12</b> MODERN METHODS IN RAMSEY THEORY <i>E. Friedgut</i>	<b>14-17</b> EXERCISES <i>M. Schacht, Z. Dvořák</i>
<b>We, Jan 26</b>	<b>10</b> GEOMETRIC SELECTION LEMMAS AND OTHER GEOMETRIC RAMSEY-TYPE THEOREMS <i>J. Matoušek</i>	
<b>Th, Jan 27</b>	<b>10.30</b> THE ANNUAL REVIEW OF ITI	<b>14</b> ITI DAY
<b>Fr, Jan 28</b>	<b>10</b> CHARACTERIZATION OF RAMSEY CLASSES <i>J. Nešetřil</i>	
<b>Mo, Jan 31</b>	<b>9-12</b> MODERN METHODS IN RAMSEY THEORY <i>E. Friedgut</i>	<b>14-17</b> EXERCISES <i>M. Schacht, Z. Dvořák</i>
<b>Tu, Feb 1</b>	<b>9-12</b> MODERN METHODS IN RAMSEY THEORY <i>E. Friedgut</i>	<b>14-17</b> EXERCISES <i>M. Schacht, Z. Dvořák</i>
<b>We, Feb 2</b>	<b>10.30</b> 53 <sup>RD</sup> MATHEMATICAL COLLOQUIUM SOME APPLICATIONS OF FOURIER ANALYSIS IN COMBINATORICS <i>E. Friedgut</i>	

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#### DocCourse Prague 2005

COMBSTRU / DIMATIA  
KAM ITI MFF UK  
Malostranské nám. 25  
118 00 Praha 1

Programme coordinators:  
Jiří Matoušek and Jaroslav Nešetřil  
Please consult web sites for an update programme  
<http://dimatia.mff.cuni.cz/doccourse>

<b>Mo, Feb 7</b>	<b>9-12</b> <b>MODERN METHODS IN RAMSEY THEORY</b> <i>V. Rödl</i>	<b>14-17</b> <b>EXERCISES</b> <i>M. Schacht, Z. Dvořák</i>
<b>Tu, Feb 8</b>	<b>9-12</b> <b>MODERN METHODS IN RAMSEY THEORY</b> <i>V. Rödl</i>	<b>14-17</b> <b>EXERCISES</b> <i>M. Schacht, Z. Dvořák</i>
<b>We, Feb 9</b>	<b>10.30</b> <b>54<sup>TH</sup> MATHEMATICAL COLLOQUIUM</b> <b>ARITHMETIC PROGRESSIONS IN THE PRIMES</b> <i>B. Green</i>	
<b>Th, Feb 10</b>	<b>10</b> <b>THE GOWERS <math>U^3</math> NORM AND ITS APPLICATIONS</b> <i>B. Green</i>	
<b>Mo, Feb 14</b>	<b>9-12</b> <b>MODERN METHODS IN RAMSEY THEORY</b> <i>M. Schacht</i>	<b>14-17</b> <b>EXERCISES</b> <i>M. Schacht, Z. Dvořák</i>
<b>Tu, Feb 15</b>	<b>9-12</b> <b>MODERN METHODS IN RAMSEY THEORY</b> <i>M. Schacht</i>	<b>14-17</b> <b>EXERCISES</b> <i>M. Schacht, Z. Dvořák</i>
<b>Th, Feb 17</b>	<b>10</b> <b>COUNTING CONNECTED GRAPHS USING ERDŐS MAGIC</b> <i>J. Spencer</i>	
<b>Fr, Feb 18</b>	<b>10</b> <b>A PERMUTATION REGULARITY LEMMA</b> <i>J. Cooper</i>	
<b>Mo, Feb 21</b> <b>S7, S6</b>	<b>9-12</b> <b>MODERN METHODS IN RAMSEY THEORY</b> <i>M. Schacht</i>	<b>14-17</b> <b>EXERCISES</b> <i>M. Schacht, Z. Dvořák</i>
<b>Tu, Feb 22</b> <b>Keiserstein palace</b>	<b>9-12</b> <b>MODERN METHODS IN RAMSEY THEORY</b> <i>M. Schacht</i>	<b>14-17</b> <b>EXERCISES</b> <i>M. Schacht, Z. Dvořák</i>
<b>We, Feb 23</b> <b>S7</b>	<b>10.40</b> <b>55<sup>TH</sup> MATHEMATICAL COLLOQUIUM</b> <b>TURÁN PROBLEMS, RAMSEY PROBLEMS, SIMPLE AND RANDOM-LOOKING EXTREMAL STRUCTURES</b> <i>M. Simonovits</i>	
<b>Th, Feb 24</b> <b>S6</b>	<b>10.40</b> <b>A HIERARCHY OF RANDOMNESS FOR GRAPHS</b> <i>V. T. Sós</i>	
<b>Fr, Feb 25</b> <b>S6</b>	<b>10.40</b> <b>THREE-COLOR RAMSEY NUMBERS FOR PATHS</b> <i>M. Ruszinko</i>	