

**AUTHORS OF PROBLEMS FOR THE INTERNATIONAL TOURNAMENT OF YOUNG
MATHEMATICIANS**

ITYM 2015

Problem	Authors	Establishment	Country
1. A Laser Machine	Tsimafej Khatkevich	Higher School of Economics	Russia
2. Maximal Minimal Triangles	Boris Doubrov	Belarusian State University	Belarus
3. Coloured Circles	Piotr Micek	Jagiellonian University	Poland
4. Simple Paths in Grids	David Zmiaikou	Wellcome Trust Sanger Institute	UK
5. A Recursive Sequence	Thomas Budzinski	École Normale Supérieure	France
6. Critical Points	Boris Shapiro	University of Stockholm	Sweden
7. Chain Stores	Konstantin Chepurkin	Saint Petersburg State University	Russia
8. A Diophantine Equation	Brian Conrey	American Institute of Mathematics	USA
9. Framing Matrices	Götz E. Pfander	Jacobs University	Germany
10. Polynomial Groups	David Zmiaikou	Wellcome Trust Sanger Institute	UK

ITYM 2014

Problem	Authors	Establishment	Country
1. Poles of Polygons	David Zmiaikou	Max Planck Institute for Mathematics	Germany
2. Free Subsets	Evgeniy Zorin	University of York	UK
3. A Recursive Sequence	Nick Yanev	Bulgarian Academy of Sciences	Bulgaria
4. Binary Matrices	Dario Bambusi	University of Milan	Italy
5. An Egyptian Game	Vincent Jugé	University Paris Diderot	France
6. Ridges of Functions	Roger Mansuy	Lycée Louis le Grand	France
7. Decimal Representations	Maksim Zhykhovich	University of Mainz	Germany
8. Cycles in a Permutation Group	Lior Bary-Soroker	Tel Aviv University	Israel
9. An Equation in \mathbb{Z}_n	Giancarlo Lucchini Arteché	École Polytechnique	France
10. Reflexive Polynomials	Stefan Maubach	Jacobs University	Germany
11. Points, Lines and Planes	George B. Purdy	University of Cincinnati	USA

ITYM 2013

Problem	Authors	Establishment	Country
1. Pentominoes	Giancarlo Lucchini Arteché	École Polytechnique	France
2. Steady Triangulations	Zhe Sun	University Paris-Sud	France
3. A Snooker	Thierry Monteil	LIRMM Montpellier	France
4. Best Choice Problem	Maksim Vaskouski, Barys Zadvorny	Belarusian State University	Belarus
5. Congruent Polygons	Barys Zadvorny	Belarusian State University	Belarus
6. An Expensive Dinner	Jill-Jénn Vie	ENS Cachan	France
7. Map Colourings	Giancarlo Lucchini Arteché	École Polytechnique	France
8. Black Jack	David Gale	University of California	USA
9. Prime Quadruplets	David Zmiaikou	Institute for Mathematical Research	Switzerland
10. Puzzles	David Zmiaikou	Institute for Mathematical Research	Switzerland
11. Dense Iterations	David Zmiaikou	Institute for Mathematical Research	Switzerland

ITYM 2012

Problem	Authors	Establishment	Country
1. Generalizing Perfectness	Philipp Lampe	Bielefeld University	Germany
2. A Number of Residues	Louis Nebout	École Normale Supérieure	France
3. Sums of Powers	Gabriel Dospinescu	École Polytechnique	France
4. Isosceles Triangles	Veselin Gushev, Ivan Tonov	Sofia University	Bulgaria
5. Stable Polygons	Pierre-Antoine Guiheneuf	University Paris-Sud	France
6. Recurrent Sequences	Nicolas Curien, Igor Kortchemski	École Normale Supérieure	France
7. An Experiment	Michael Boshernitzan	Rice University	USA
8. Discharged Batteries	Bernardo Da Costa	Instituto de Matemática, UFRJ	Brazil
9. Random Games	Igor Kortchemski	École Normale Supérieure	France
10. Densities of Natural Subsets	Ilya Chistyakov	Laboratory of Continuous Math Education	Russia

ITYM 2011

Problem	Authors	Establishment	Country
1. Arithmetic Functions	David Zmiaikou	University Paris-Sud	France
2. Fibonacci and Beyond	Frédéric Paulin	University Paris-Sud	France
3. An Abacus	Tsimafej Khatkevich	Belarusian State University	Belarus
4. Rearrangements	Barys Zadvorny	Belarusian State University	Belarus
5. Convergent Triangles	Jean-Pierre Kahane	University Paris-Sud	France
6. Inequalities for Sides	Maksim Vaskouski	Belarusian State University	Belarus
7. A Game on Cycles	David Zmiaikou	University Paris-Sud	France
8. Average Chord Length	Samuel Lelièvre	University Paris-Sud	France
9. Roots of Unity	David Harari	University Paris-Sud	France
10. Multiple Roots	Aliaksandr Minets	Belarusian State University	Belarus

ITYM 2010

Problem	Authors	Establishment	Country
1. Blocking Sets	Bernardo Da Costa	University Paris-Sud	France
2. Separating Functions	Vladimir Shchur	University Paris-Sud	France
3. A Cyclic Inequality	David Zmiaikou	University Paris-Sud	France
4. A Baby Chess	Mikhail Hlushchanka	Belarusian State University	Belarus
5. A Strange Network	Tsimafej Khatkevich	Belarusian State University	Belarus
6. Min/Max Questions	Barys Zadvorny	Belarusian State University	Belarus
7. Friendly Polynomials	Evgeniy Zorin	École Normale Supérieure	France
8. Points on Curves	Artem Kozhevnikov	University Paris-Sud	France
9. A Topological Problem	Ilya Chistyakov	Laboratory of Continuous Math Education	Russia

ITYM 2009

Problem	Authors	Establishment	Country
1. Specular Colourings	David Zmiaikou	University Paris-Sud	France
2. A Functional Equation	Maksim Zhykhovich	École Normale Supérieure	France
3. Monotonic Squares	Barys Zadvorny	Belarusian State University	Belarus
4. Minimality of Inscribed Polygons	David Zmiaikou	University Paris-Sud	France
5. Integer-valued Polynomials	Mikhail Hlushchanka	Belarusian State University	Belarus
6. Pattern Graphs	David Zmiaikou	University Paris-Sud	France
7. Placements of Pentominoes	Barys Zadvorny	Belarusian State University	Belarus
8. Positivity of Symmetric Polynomials	Ilya Chistyakov	Laboratory of Continuous Math Education	Russia
9. Good Numbers	David Zmiaikou	University Paris-Sud	France
10. Centro-Symmetric Shadows	Mikhail Hlushchanka	Belarusian State University	Belarus